ISSN 0305-0084



COMMONWEALTH AGRICULTURAL BUREAUX

Review of applied entomology

Series B Medical and Veterinary



COMMONWEALTH INSTITUTE OF ENTOMOLOGY

56 Queen's Gate, London SW7 5JR, UK Telephone: 01-584-0067

Director and Editor: N.C. Pant, M.Sc., D.I.C., Ph.D., F.N.A., F.I.Biol.

Assistant Director/Editor: A.H. Parker, M.Sc., Ph.D.

Assistant Editor: J.M.B. Harley, B.Sc.

Scientific Information Officers: Mrs. M.A. Greiff, B.A., Miss S.C. Huff, B.A., Miss J.J. Larkham, B.A., T.S. Robertson, B.Sc., G.A. Viney, M.Sc.

Outside Abstractors: R.F. Avery, M.A., Miss L.E. Cobb, B.A., R.G. Fennah, Sc.D., M.A., A.I.C.T.A.

Distribution Maps: R.J.A.W. Lever, B.Sc. D.I.C. F.L.S.

Indexer: A.M. Wood, B.A.

Senior Editorial Assistant: Miss J.K. Harvey

Librarian: C.J. Hamilton, A.L.A. Administrative Officer: R.M. North

Taxonomists: Z. Boucek, R.N. Dr., C.Sc., Dr.Sc., J.D. Bradley, Ph.D., M.L. Cox, B.Sc., Ph.D., I.D. Gauld, M.I. Biol., M.S.K. Ghauri, M.Sc. Agr., Ph.D., D.I.C., K.M. Harris, B.Sc., Dip.Agr.Sc., D.T.A., J.D. Holloway, B.A., Ph.D., D. Macfarlane, B.Sc., R. Madge, M.S., Ph.D., B.R. Subba Rao, B.Sc., Assoc. I.A.R.I., Ph.D., D.Sc., F.A.Sc., T.G. Vazirani, M.Sc., Ph.D., D.Sc., D.J. Williams, B.Sc., Ph.D., D.Sc., F.I. Biol.

The function of the Commonwealth Institute of Entomology is to make available and disseminate information on insects and other arthropods of importance to man whether they are injurious or beneficial in their effects. It publishes Series A (Agricultural) and Series B (Medical & Veterinary) of the monthly Review of Applied Entomology, abstracting the applied entomological literature of the world, the Bulletin of Entomological Research, a quarterly research journal of applied entomology, Distribution Maps of Pests (18 per annum) and other publications at irregular intervals. The Institute also has a Library specialising in applied entomology open to the public, and an Identification Service located in the British Museum (Natural History), the services of which are available to any user. Along with 3 other Institutes and 10 Bureaux, it forms part of the Commonwealth Agricultural Bureaux, an organisation sponsored by Commonwealth governments for the dissemination of information on agricultural research and related subjects.

Annual Subscription Rate for Review of Applied Entomology
To subscribers that are not members of CAB

£130.00 (Series A) £ 65.00 (Series B)

The journal is available at a special rate to subscribers in countries which make a financial contribution to CAB (these countries are listed on the inside back cover).

Back volumes are available with discounts of up to 50% on orders of over 10 volumes. Microform editions are available at 80% the price of paper editions.

Orders and enquiries concerning subscriptions and back volumes should be sent to CENTRAL SALES, COMMONWEALTH AGRICULTURAL BUREAUX, FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK. Please note that prices are subject to change without notice.

Photocopies of most abstracted papers can be supplied by the Institute at 20p per page in UK, or 25p per page elsewhere by air mail; minimum charge £2 per paper. An application and copyright declaration form is printed inside this issue. This form (which may be copied) should be signed and returned to the Institute.

© Commonwealth Agricultural Bureaux, 1982. All rights reserved. No part of this publication may be produced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London SW1.

The Commonwealth Agricultural Bureaux organisation does not accept responsibility for any trade advertisement included in this publication.

REVIEW OF APPLIED ENTOMOLOGY

Series B - Medical and Veterinary

Volume 69



Prepared by

Commonwealth Institute of Entomology, London

© Commonwealth Agricultural Bureaux 1982

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London, S.W.1.

published by

Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, SLOUGH SL2 3BN, UK.

printed by
Unwin Brothers Ltd., The Gresham Press, Old Woking, Surrey, UK.

COMMONWEALTH AGRICULTURAL BUREAUX

The Commonwealth Agricultural Bureaux (CAB) is a co-operative venture established by Commonwealth Governments to provide information and other specialized services for scientists and professional workers in agriculture and related fields. The organization is controlled by an Executive Council composed of nominees of the various Commonwealth Governments, including one for the Dependent Territories. The following pages list the present members of the Executive Council, and Liaison Officers who form the primary link in the member country.

CAB has three main functions: a world agricultural information service, an identification service for entomology, mycology and helminthology, and a biocontrol service. CAB's information service is based on 46 abstract journals which, taken together, cover the whole range of agricultural science. Contemporary world literature in many languages is scanned for items worthy of noting by abstract or titles in the journals. Since 1973 all references have been made available in machine-readable form for batch searching and online retrieval. The database contains approximately 1,100,000 records and is increasing by 12,000 per month. Other publications include technical periodicals, annotated bibliographies, review articles and books. An information retrieval service ensures that individual needs are met, and also supplies photocopies of source papers.

The work of CAB is largely carried out through a number of Institutes and Bureaux, each dealing with a particular aspect of agricultural science. Enquiries on scientific aspects of CAB work should be sent to the Director of the appropriate Bureau. Other enquiries should be sent to the Executive Director, CAB, at the address below, or to Liaison Officers in member countries.

Headquarters

Farnham House, Farnham Royal, Slough SL2 3BN, UK Tel: Farnham Common (02814) 2281 Telex: 847964 Cables: COMAG, SLOUGH

Executive Director: N.G. Jones, DFC, BSc Editorial Director: J.R. Metcalfe, MA, PhD Scientific Adviser: E.K. Woodford, OBE, MSc, PhD Scientific Assistant: D.L. Hawksworth, PhD, DSc, FLS

Institutes

Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR, Tel: 01-584-0067/8 Director: N.C. Pant, MScAgr, DIC, PhD, FNA, FIBiol.

Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF. Tel: 01-940-4086/7 Director: A. Johnston, BSc, AICTA, FIBiol.

Commonwealth Institute of Biological Control, Gordon Street, Curepe, Trinidad, West Indies. Tel: St. Augustine (662) 4173 Director: F.D. Bennett, BSA, PhD.

Commonwealth Institute of Parasitology, 395A Hatfield Road, St. Albans, AL4 0XU, Herts., Tel: St. Albans (0727) 33151

Director: R.L.J. Muller, BSc., PhD.

Bureaux

Agricultural Economics, Dartington House, Little Clarendon Street, Oxford OX1 2HH. Tel: Oxford (0865) 59829. Director: P.G. Stonham, PhD.

Animal Breeding and Genetics, Animal Breeding Research Organization, The King's Buildings, West Mains Road, Edinburgh EH9 3JX. Tel: Edinburgh (031) 667-6901.

Director: J.D. Turton, BSc, MRCVS, DTVM.

Animal Health, Central Veterinary Laboratory, New Haw, Weybridge, KT15 3NB, Surrey. Tel: Byfleet (9973) 42826
Director: R.M. Mack, FRCVS.

Dairy Science & Technology, Lane End House, Shinfield, Reading RG2 9BB. Tel: Reading (0734) 883895 Director: E.J. Mann, NDD, CDD.

Forestry, Commonwealth Forestry Institute, South Parks Road, Oxford OX1 3RD. Tel: Oxford (0865) 57185 Director: W. Finlayson, BSc.

Horticulture & Plantation Crops, East Malling Research Station, Maidstone ME19 6BJ, Kent. Tel: West Malling (0732) 843833 Director: D.J. O'D. Bourke, MA, DipAgr, FLS.

Nutrition, Rowett Research Institute, Bucksburn, Aberdeen AB2 9SB. Tel: Bucksburn (0224) 712162 Director: A.A. Woodham, BSc, PhD, CChem, FRIC.

Director: A.A. Woodhalit, BSC, FID, Celein, FRE.

Pastures & Field Crops, Grassland Research Institute, Hurley, Maidenhead SL6 5LR. Tel: Littlewick Green (062 882) 3457

Director: P.J. Boyle, MA.

Plant Breeding & Genetics, Department of Applied Biology, Pembroke Street, Cambridge CB2 3DX. Tel: Cambridge (0223) 358381 (Ext. 216)

Director: Miss O. Holbeck, BSc.

Soils, Rothamsted Experimental Station, Harpenden AL5 2JQ, Herts, Tel: Harpenden (05827) 63133 (Ext. 271) Director: B. Butters, MSc, DipAgr, DTA, DIC, ARCS.

EXECUTIVE COUNCIL

(as at 1 September 1981)

Member						Representing
Dr. M. DHAR (Chairman)		***				India
Dr. B. HEALY (Vice-Chairman)					***	New Zealand
G.M.P. MYERS					***	United Kingdom
Dr. L.W. MORLEY						Canada
Dr. A.E. PIERCE, CBE	***			***		Australia
E.G. DAYANANDA	***				11111111111	Sri Lanka
Y.N. OHENE-AKRASI					***	Ghana
THE SECOND SECRETARY						Malaysia
THE FIRST SECRETARY						Nigeria
A. ANTONIADES			and and			Cyprus
H.E. THE HIGH COMMISSIONER	(T)		17		unit to the	Sierra Leone
Mrs. L.E. HOWELL	(15)[10)			milite :	all ren	Tanzania
Miss H. GOULBOURNE	11		1		a fremi s	Jamaica
THE FIRST SECRETARY	in imag	1 7		Marie I	om man	Trinidad & Tobago
A.L. MUKASA-ZIRIMENYA	AP TO D		UTE I	1	000,00	Uganda
E.N. BIRICHI	7.1			ildi	by Honn	Kenva
H.E. THE HIGH COMMISSIONER	odo.				on one of	Malawi
THE TRADE COMMISSIONER						Zambia
Mrs. AMIE DIABBA-BOJANG				111116	o .Leimer	The Gambia
C. BARKER	ag 1				45. ahn	Guyana
H.E. THE HIGH COMMISSIONER					r/wans	Botswana
T. NARRAINEN					37	Mauritius
S. KANGWAI						Fiji
S.A.L.M. MUSTAKIM						Bangladesh
H.E. THE HIGH COMMISSIONER	***				***	The Bahamas
P. TAMEI			***			Papua New Guinea
(to be appointed)	***			***	11111111111111111	Zimbabwe
D.G. OSBORNE					***	Dependent Territories

Dr. D.A. ALI, Secretary, Commonwealth Science Council (Observer)

N.G. JONES, DFC, BSc (Executive Director)

LIAISON OFFICERS

(as at 1 September 1981)

Contributing countr	y Liaison Officer	Address
United Kingdom	Under Secretary	Agricultural Research Council, 160 Great Portland Street, London W1N 6DT.
Canada	Mr. R.M. Prentice	Program Coordinator, Crop Pro- tection Research Branch, Agriculture Canada, Ottawa, Ontario, Canada, KIA 0C5
Australia	J.B. Allen, BSc, PhD	Commonwealth Scientific and Industrial Research Organization, PO Box 225, Dickson, ACT 2602.
New Zealand	G.W. Butler, MSc, Fildr, FRSNZ	Assistant Director-General, Department of Scientific and Industrial Research, Private Bag, Wellington.

India	O.P. Gautam, PhD	Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 110001.
Sri Lanka	G.W.E. Fernando, BSc, MSc, PhD.	Senior Deputy Director of Agriculture (Research), Department of Agriculture, Peradeniya.
Ghana	Executive Chairman	Council for Scientific and Industrial Research, PO Box M.32, Accra.
Malaysia	Permanent Secretary	Ministry of Agriculture & Cooperatives, Swettenham Road, Kuala Lumpur.
Nigeria	The Director A. J. C. 19 D. D. G. 190	Agricultural Sciences Research Department, Moor Plantation, Private Mail Bag No. 5382, Ibadan.
Cyprus	A. Papasolomontos, PhD	Director-General, Ministry of Agriculture and Natural Resources, Nicosia.
Sierra Leone	Senior Lecturer 32.8 75haH M.M.	Njala University College, University of Sierra Leone, PMB, Freetown.
Tanzania	Director of Agriculture	Ministry of Agriculture, PO Box 9071, Dar-es-Salaam.
Jamaica	Karl E. Wellington, PhD	Research & Development Department, Ministry of Agriculture, PO Box 480, Kingston 6.
Trinidad & Tobago	Chief Technical Officer (Crop Research)	Ministry of Agriculture, Central Experiment Station, Centeno, via Arima Post Office, Trinidad.
Uganda	Permanent Secretary	Ministry of Agriculture & Forestry, PO Box 102, Entebbe.
Kenya	Director of Agriculture	Ministry of Agriculture, PO Box 30028, Nairobi.
Malawi	Chief Agricultural Research Officer	Ministry of Agriculture and Natural Resources, PO Box 30134, Capital City, Lilongwe 3.
Zambia	Permanent Secretary	Ministry of Rural Development, PO Box RW.197, Lusaka.
The Gambia	Permanent Secretary	Ministry of Agriculture and Natural Resources, The Quadrangle, Banjul.
Guyana	Deputy Chief Agricultural Officer (Research)	Ministry of Agriculture, PO Box 1001, Georgetown.
Botswana	Permanent Secretary 11 14 14 14 14 14 14 14 14 14 14 14 14	Ministry of Agriculture, Common Service Division, Private Bag 0028, Gaborone.
Mauritius	B.D. Roy	Chief Agricultural Officer, Agricultural Services, Reduit.
Fiji	Permanent Secretary	Ministry of Agriculture, Fisheries and Forests, Rodwell Road, Suva.
Bangladesh	K.M. Badruddoza, MAgr, PhD, DipGenPtBr.	Director, Bangladesh Agricultural Research Institute Farm Gate (Shor-e-Bangla Nagar)
The Bahamas	Director of Agriculture	New Air Port Road, Dacca-7. Ministry of Agriculture, Fisheries & Local Government, PO Box 3028, Nassau.
Papua New Guinea	Mr. N.J. Natera, The Secretary	The Department of Primary Industry, PO Box 2417, Konedobu.
Zimbabwe	G.W. Herd was all brow and to yellow the believe the state of the stat	Head, Plant Protection Research Institute, Ministry of Agriculture, PO Box 8100, Causeway, Salisbury.
Solomon Islands	B.J.F. Rusell with the services and tyro	Permanent Secretary, Ministry of Agriculture and Lands, Solomon Islands Government, PO Box G11, Honiara, Solomon Islands.

COMMONWEALTH INSTITUTE OF ENTOMOLOGY

56 QUEEN'S GATE, LONDON SW7 5JR, UK TELEPHONE: 01-584-0067

Identification Service: c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, UK

Director and Editor:

N.C. Pant, M.Sc., D.I.C., Ph.D., F.N.A., F.I. Biol.

Assistant Director/Editor:

A.H. Parker, M.Sc., Ph.D.

Assistant Editor:

J.M.B. Harley, B.Sc.

Scientific Information Officers:

Mrs. M.A. Greiff, B.A. Miss S.C. Huff, B.A.

Miss J.J. Larkham, B.A. T.S. Roberton, B.Sc.

G.A. Viney, M.Sc.

Outside Abstractors:

R.F. Avery, M.A. Miss L.E. Cobb, B.A. R.G. Fennah, ScD., M.A. A.I.C.T.A.

Distribution Maps:

R.J.A.W. Lever, B.Sc., D.I.C., F.L.S.

Indexer:

A.M. Wood, B.A.

Senior Editorial Assistant:

Miss J.K. Harvey

Librarian:

C.J. Hamilton, A.L.A.

Administrative Officer

R.M. North

Taxonomists:

Z. Boucek, R.N. Dr., C.Sc., Dr.Sc. J.D. Bradley, Ph.D. M.L. Cox, B.Sc., Ph.D. I.D. Gauld, M.I. Biol. M.S.K. Ghauri, M.Sc. Agr., Ph.D., D.I.C.

K.M. Harris, B.Sc., Dip.Agr.Sc., D.T.A.

J.D. Holloway, B.A., Ph.D. D. Macfarlane, B.Sc. R. Madge, M.S., Ph.D. B.R. Subba Rao, B.Sc., Assoc. I.A.R.I., Ph.D. T.G. Vazirani, M.Sc., Ph.D., D.Sc. D.J. Williams, B.Sc., Ph.D., D.Sc., F.I.Biol.

The function of the Commonwealth Institute of Entomology is to make available and disseminate information on insects and other arthropods of importance to man whether they are injurious or beneficial in their effects. It publishes Series A (Agricultural) and Series B (Medical & Veterinary) of the monthly Review of Applied Entomology, abstracting the applied entomological literature of the world, the Bulletin of Entomological Research, a quarterly research journal of applied entomology, Distribution Maps of Pests (18 per annum) and other publications at irregular intervals. The Institute also has a Library specialising in applied entomology open to the public, and an Identification Service located in the British Museum (Natural History), the services of which are available to any user. Along with 3 other Institutes and 10 Bureaux, it forms part of the Commonwealth Agricultural Bureaux, an organisation sponsored by Commonwealth governments for the dissemination of information on agricultural research and related subjects.

REVIEW OF APPLIED ENTOMOLOGY

SERIES B

Volume 69

Contents

ABSTRACTS												
TAXONOMY	7	45	71	99	131	185	213	251	287	317	353	393
ANATOMY, MORPHOLOGY	7	45	71	99	131	185	213	251	287	317	353	393
REPRODUCTION AND DEVELOPMENT	7	45	71	99	131	185	213	251	287	317	353	393
PHYSIOLOGY AND BIOCHEMISTRY	7	45	71	99	131	185	213	251	287	317	353	393
GENETICS AND STERILITY	7	45	71	99	131	185	213	251	287	317	353	393
ECOLOGY AND BEHAVIOUR	7	45	71	99	131	185	213	251	287	317	353	393
GEOGRAPHICAL DISTRIBUTION, FAUNAS	7	45	71	99	131	185	212	251	207	217	252	202
TECHNIQUES AND APPARATUS	7	45	71	99	131	185	213	251	287 287	317	353 353	393 393
ARTHROPODS OF MEDICAL AND	,	43	/1	23	131	103	213	231	201	31/	333	373
VETERINARY IMPORTANCE	7	45	71	99	132	186	213	251	288	318	353	393
Blattaria	9	47	73	102	148	188	217	252	289	320	357	396
Mallophaga Anoplura	10 11	48 48	74 74	105 105	149 150	189	219	253 253	290	323 323	358 358	397 397
Hemiptera	11	49	74	105	150	190	219	254	290	324	359	397
Reduviidae	11	49	74	105	150	190	219	254	290	324	359	397
Cimicidae	12	_	75	_	151	191	220		291	324	360	399
Other Hemiptera	_	_	75	_	_	_	7-	255	-	_	_	_
Siphonaptera	12	50	75	106	151	192	220	255	291	324	360	399
Diptera	13 13	51 51	76 76	107 107	152	193 193	221 221	255 255	296 296	325 326	361	400
Canatamagamidaa	22	56	82	112	159	198	231	270	300	333	371	412
Phlebotominae	23	57	83	112	160	199	231	271	301	334	372	413
Simuliidae	24	58	83	113	161	199	231	272	301	335	373	413
Glossinidae	25	59	84	113	165	200	233	273	302	337	374	415
Oestridae, Gasterophilidae,	26		06	114	1.00	200	007	074	202	220	270	416
Cuterebridae Other Diptera	26 26	60 60	86 86	114	169 170	200	237 237	274 274	303 304	339 339	378 378	416
Other Diptera Other insect orders	34	65	89	118	174	205	242	279	309	343	382	422
Acari	35	66	90	119	176	206	242	280	310	344	383	423
Ticks (Ixodoidea)	35	66	90	120	176	206	242	280	310	344	383	423
Mites (other Acari)	41	67	94	125	178	208	245	282	312	347	387	427
Other Arachnida	43	69	96	128	179	210	248	284	314	349	389	428
Other arthropod classes	_		96		7	210	_			-	390	429
DISEASES AND DISORDERS	44	70	96	128	180	211	249	285	315	350	390	429
PROTECTION AGAINST ARTHROPODS AND USE OF ARTHROPODS FOR			1			16.			1			
BIOLOGICAL CONTROL	44	70	97	128	180	211	249	285	315	351	390	429
Control measures Unclassified	44 44	70	97 97	128 128	180	211	249 249	285	315	351 351	390 390	429 429
Biological control (including use of	17		,	120			2 17		010	551	570	127
pathogens)	44	70	-	128	180			285	315		390	429
Control by toxic chemicals	44	70	97	128	180	211	249		315	351	390	429
Cultural control Deterrents (including repellents and	_	_		-	_	_	-	285		REVE	-	-
antifeedants)	44	_	****	1 1	180		_	_	m_9.	11_1		_
Integrated control		_		_	180	_	249	-	71-	_	390	429
Plant resistance	_	_	-	_	_	_	-	-	-	-		_
Pheromones, attractants, trapping	44	70	***	120	180	211	249	285	-	251	390	429
Sterilisation and genetic control	44	70 70	97	128 128	180 180	211	249	285 285	315	351 351	390 390	429 429
Surveys, loss estimates, forecasts Legal aspects	44	70	91	120	180	211	_	203	-	351	390	429
Logar aspects		, 0				2.1						
CHEMICALS, INCLUDING TOXICITY TESTS AND ENVIRONMENTAL EFFECTS	44	70	97	128	180	211	249	285	315	351	391	429
ORGANISATIONS AND COMMUNICATION	44	70	97	129	183	211	250	286	316	352	391	430
AUTHOR INDEX												431
CUDIE OF INDEV												449
SUBJECT INDEX			1									447

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 69

Page	Abstract	Line	
14	61	7	insert 'overwinter as a larva in a state of' after 'to'
83	634	8	delete 'vector'
90	688	5	insert', Yugoslavia' after 'Veterinaria'
91	697	10	insert 'Mesocricetus auratus (' after 'host'
91	697	10	insert ')' before 'on'
124	972	7	for 'Haemaphysalis' read 'Haemaphysalis'
132	1021	5	for 'Ornithomyia' read 'Ornithomya'
134	1041	4	for 'A. claviger' read 'Anopheles claviger'
194	1530	9	delete 'the use of'
194	1530	10	delete 'in vegetation'
194	1530	21 11	insert 'against mosquitoes.' after 'fenethacarb'
229	1828	10	insert 'equine' after 'Venezuelan'
244	1947	23	for 'Tuleniy' read 'Tyuleniy'
248	1976	11	for 'transmits plague [caused by Yersinia pestis].' read 'infests man.'
256	2031	17	insert '(Theo.) (japonicus' before 'shintienensis'
263	2086	13	for 'Dixiidae' read 'Dixidae'
304	2412	14	for '(1-methoxyethyl)benzene]' read '(1-methylethyl)benzene]'
304	2412	16	for 'ethylphenoxy(-' read 'ethylphenoxy)-'
383	3053	9	for 'lanceatum' read 'dendriticum (lanceatum)'
401	3195	17	for 'A.' read 'Anopheles'
410	3277	8	for 'P.' read 'Plasmodium'
110	5211	0	TOTAL TOTAL TRUST

AUTHOR INDEX

Abd-El-Fattah, A. S. A. 879 Abdel Gawaad, A. A. 1623 Abdel-Malek, A. A. 2634, 2635 Abdel Rahim, A. A. 1520 Abdel-Rahman, A. M. 2634, 2635, 2636 Abdel-Rehim, L. 366 Abdel-Wahab, K. S. 718 Abdel-Wahab, K. S. E. 2469, 2755 Abdu, R. M. 478, 1397, 2720 Abdulaev, A. A. 2513 Abdullah, M. E. 306 Abdurrahim, U. 1330 Aband, L. 2965 Abend, J. F. 2965 Abinanti, F. R. 2186 Abinanti, F. R. 2186 Abo-Elghar, M. R. 3394 Abonnenc, E. 422, 2390 Abou Zid, S. A. 562 Abreu, M. H. 2336 Abu-Samra, M. T. 777, 3418 Abul-Hab, J. 3142 Acedo, C. Sánchez 340, 3419 Achterberg, C. van 2275 Ackerman, S. 1407, 3402 Ackermann, P. 1440 Acosta, M. 1828 Acosta, M. 1828 Adak, T. 3222 Adam, C. 393, 2038 Adames, A. J. 2283 Adamkiewicz-Depczyk, M. Adamkiewicz-Depczyk, M.
2707
Adamović, Ž. 3285
Adamović, Ž. R. 599
Adams, M. A. 2554
Adams, M. E. 207
Adams, T. S. 1342, 1343, 1910
Adamsky, G. 1093
Addison, E. M. 1296
Adekolu-John, E. O. 1322
Adham, F. K. 476, 2135,
2445, 2721
Adhami, N. 2300
Adhami, U. M. 100
Adityachaudhury, N. 2792
Adjukiewicz, A. 2037
Adlakha, V. 2602, 2603
Adler, V. E. 549
Adolph, R. 309
Adrian, H. 523
Aep, S. 1776 2707 Aep, S. 1776 Aeschlimann, A. 2220, 2740, 2741 Afifi, S. E. D. 1771 Agarwal, G. P. 1173, 2011, Agarwal, N. 2421 Agashkova, T. M. 198, 1893 Ageel, A. M. 306 Agrawal, G. P. 2568 Agrawal, O. P. 2551, 2840 Agricola, H. 2847 2852 Agricultural Research Council, United Kingdom 2650 Agricultural Research Council, Zimbabwe 1405 Agricultural Research Institute, Kenya 1722 Agricultural Science Service, Agricultural Science Service,
United Kingdom 3048
Agriculture Canada, Research
Branch 2510
Aguesse, P. 3386
Aguiar, O. B. 1678
Ahmadnezhad, A. 503
Ahmed, S. 2497
Ahmed, S. H. 2634
Ahmed, T. 3233
Aidroos, K. Al- 596, 860
Aiken, S. R. 2130
Ainsley, R. W. 3239
Aitken, T. H. G. 614
Aiyedun, B. A. 1309
Aizawa, K. 1228
Aizin, B. M. 1688
Akesson, N. B. 2271
Akhmetzyanova, N. Sh. 1021
Akhtar, M. H. 1451

Akhtar, R. 2372 Akinboade, O. A. 1109 Akiyama, K. 1418 Akre, R. D. 2460 Al-Aidroos, K. 596, 860 Al-Janabi, B. M. 502 Al-Mashhadani, H. M. Al-Okaily, A. K. 2917 Al-Saadi, S. H. 2917 Al-Shadebi, A. M. 3086 Alagón, A. B. C. 522 Alagón, A. C. 522 Alam, S. N. 1261 Alapatt, F. 1997 Alary, J. C. 2994 Albala, F. 340 Albala Pérez, F. 2850 Albala Pérez, F. 2850 Albert, J. P. 3310 Albrecht, J. 1650 Aleksandrić, Lj. 3112 2850 Alekseev, A. A. Alekseev, A. N. Alekseev, E. V. Aleraj, B. 237 1019 867 87 Alekseev, E. V. 87
Aleraj, B. 237
Alexandrova, E. M. 1032
Alfaro, E. 3176
Alfred, J. R. B. 1595
Alger, N. E. 747
Ali, A. 912, 1366, 1905, 2412, 3024, 3346
Ali, M. 334, 1739
Aliev, M. I. 851, 853
Alirzaev, G. U. 852
Allan, S. A. 2614
Allan, W. G. L. 739
Allen, G. E. 3388
Allen, J. A. 77
Allison, C. E. Machado- 1824, 2643, 2644
Allison, F. 142
Allison, F. 142
Allison, T. C. 349
Allmang, B. 3322
Allred, D. M. 1962, 2478
Altuchova, L. M. 3307
Alvarenga, N. J. 36
Alzuet, A. B. de 984
Amanguliev, A. 1636
Amanniyazova, R. D. 1636
Amannov, E. A. 955
Ambrosi, D. 758 Amanov, E. A. 955 Ambrosi, D. 758 Aminah, N. S. 1554, 1555, 1556 Ammar, E. D. 3344, 3345 Amrine, J. W. 1805 Anagnostakis, S. L. 1563 Ananthakrishnan, T. N. 2021, 3168 3168 Andersen, S. O. 2189 Anderson, B. D. 1791 Anderson, J. F. 1398, 1563, 1603, 1921, 2443 Anderson, J. R. 1287, 2098, 2100, 2108, 2442, 3245, 3333 3333 Anderson, N. L. 2415 Anderson, R. C. 2651 Anderson, R. J. 1442 Anderson, R. M. 2839, 3146 Andow, D. 751 Andrade, A. F. B. 2295 Andrade Luna Dias, A. P. Andrade, S. P. 2780 Andrade, Z. A. 1504 Andreadis, T. G. 1232, 2893 Andreeva, R. V. 1020, 2031, 2695, 3336 2695, 3336 Andrews, C. L. 1155, 1679 Andrews, J. R. H. 518, 559 Andrews, R. H. 1951, 3401 Andrishena, L. G. 1030 Anez, N. 813 Angel, C. A. 700 Angerilli, N. D. P. 2617 Angerilli, N. P. D. 384, 1243, 2355, 2936 Angioy, A. M. 1370, 1614 Ankilov, A. N. 1218, 1982 Anthony, D. W. 1819, 2891

Anufrieva, V. N. 1758 Aoki, Y. 3363 Apperson, C. S. 2723 Applin, D. G. 3358 Aragón, L. del C. Calderón 1460 Arakawa, K. Y. 2501 Araki, S. 3369 Arata, A. A. 1194, 1230 Araujo, T. I. 906 Arbesman, C. E. 1386, 1630, 1634
Archer, M. E. 484
Arditi, R. 2201
Arends, J. J. 908
Argiro, V. 2008
Arias, J. 2390
Ariza, E. Hentschel 1458
Arkell, N. J. 1341
Arlian, L. G. 1980
Armas, L. F. de 308, 745, 3432
Armond A. 520 1634 3432 Arnaud, A. 520 Arnold, E. V. 2554 Arnold, J. 126 Arnold, J. T. A. 2202 Arsen'eva, L. P. 695 Arteaga, I. de Haro 352 Artem'ev, M. M. 869, 17 Arthur, D. R. 249 Arumoya, E. A. 2731 869, 1758 Arumova, E. A. 2731 Arutyunov, L. I. 1013 Asakura, K. 857 Ascher, K. R. S. 1892 Ash, N. 1730 Ash, N. 1730
Ashburner, A. 1995
Ashley, T. R. 930
Aslamkhan, M. 3259
Asman, S. M. 2100, 2101, 3140, 3239, 3240
Assem, J. van den 2461
Association for the Study of Oriental Insects 14
Atal, C. K. 1755
Atalay, R. 3369
Ataur-Rahim, M. 2642
Atkins, K. D. 176, 2718
Atkins, M. D. 535
Atlan, H. 219 Atlan, H. 219 Atlan, H. 219 Atmosoedjono, S. 1776, 1777 Atrous, L. El 2256 Attakorn, N. 724 Attri, B. S. 3216 Atwood, J. D. 1627 Aubin, A. 2958 Ault, S. K. 266, 267 Auregan, G. 644 Australia, Commonwealth Scientific and Industrial Research Organization 18, 19, 779, 2831, 2832

Australia, Waite Agricultural Research Institute 3037
Autrum, H. 2004
Avetisyan, G. A. 355, 2579
Avigad, L. S. 231
Ávila, I. García 849
Awadallah, K. T. 3344, 3345
Awe, W. 2191
Axtell, R. C. 226, 374, 1345, 1814, 2723
Ayers, G. S. 2273
Azad, A. Farhang-2321
Azanjac, R. 3109
Azeez, S. A. 2888
Azevedo, E. M. V. Milward-de-1747
Azra, K. 1557, 2938
Babcock, J. L. 2498
Babin, L. 1798
Babu, C. S. 101
Babu, K. S. 1164, 1169, 2784
Baccam, D. 57
Bachrach, U. 1402
Badie, A. 2727
Baessa Aguiar, O. 1678
Baecz, M. 2071

Bagirov, G. A. 852 Bahadur, J. 2840 Bai, G. 1357
Bai, M. G. 2621
Bailey, C. L. 3248
Bailey, D. L. 80, 846, 1815, 1816, 2125, 2272, 3232, 3236, 3243 Bailey, R. E. 3405 Baillie, A. C. 2507 Baillie, B. G. 178 Baille, B. G. 178
Bailly-Choumara, H. 2674, 3183, 3304, 3403
Bailly, M. 133, 134
Baimai, V. 620
Bain, O. 58, 128, 692, 1573
Bairamov, M. 1013
Bakanov, Sh. A. 3349
Baker, J. A. F. 939
Baker, J. D. 2110
Baker, J. R. 952
Baker, J. R. 952
Baker, J. R. 952
Baker, R. 2829
Baker, R. 2829
Baker, R. H. 119, 372, 595, 1557, 2377, 2938
Baki, M. H. A. 3293
Bakkal, S. N. 2708
Baktinova, N. Z. 1043
Bala, N. 3020
Balaraman, K. 2622, 2641
Balashov, Yu. S. 305, 719, 1022, 3431
Balderrama, N. 797 Bailly-Choumara, H. 2674, Balashov, Yu. S. 305, 719, 1022, 3431
Balderrama, N. 797
Baldry, D. A. T. 1096, 1859, 1873, 1875, 2401, 2982
Baldwin, K. F. 1193
Balk, F. 3323
Balling, S. S. 1782
Balmes G., L. 1131
Balusek, J. 1639
Banerjee, D. P. 1260, 2837
Banerjee, K. 573
Bang, Y. H. 591, 1194, 1230, 2895, 2918, 2919, 3188
Banks, C. S. 2818
Banks, W. A. 1627, 2725
Bannister, A. 775
Bänziger, H. 916
Baqar, S. 3233
Baquer, N. Z. 552
Bar, M. E. 400
Bar-Zeev, M. 39
Baral, K. 2505
Baranovskii P. M. 493, 2692 Bar-Zeev, M. 39
Baral, K. 2505
Baranovskii, P. M. 493, 2692
Baransu, O. 519
Barata, J. M. S. 2575
Baratov, Sh. B. 154, 205, 676, 1616, 1617, 3347
Barbier, D. 517
Barca, I. Hollands 738
Barclay H. J. 1429 Barca, I. Hollands
Barclay, H. J. 1429
Baréty, M. 1967
Barfred, T. 690
Barhmanad Rao, B. Barfred, T. 690
Barhmanad Rao, B. 1447
Barjac, H. de 1207, 1798, 2350, 2606
Barker, D. M. 1644
Barker, J. F. 3170
Barker, R. W. 604, 979
Barkovich, E. N. 411
Barlin, M. R. 3159
Barlow, L. A. 1915
Barnard, B. J. H. 2139
Barnard, D. R. 1575, 2388
Barnard, R. H. 2384
Barnby, M. A. 2114
Barnes, A. M. 3405, 3406
Baron, R. L. 3135
Barnates, A. 697
Barre, N. 958
Barrera, A. 1130
Barrera, R., R. 2362, 2643
Barrett, F. M. 2189, 2860
Barrett, R. E. 1187
Barrett, T. V. 42, 3167
Barrio, A. 3115
Barro, T. 2672
Barry, C. 1524
Barry, J. D. 1878

Bart, A. G. 1339 Bartell, D. P. 2730 Barth, D. 346 Barth, R. 2284, 2297, 2298 Bartkowska, K. 51 Bartlett, C. M. 2651 Barton Browne, L. 166, 2702 Basaca-Sevilla, V. 83, 3221 Bascur, L. 523 Bassal, T. T. M. 2753, 2754, 3414 Bassinga, A. 2686, 2687 Bassols Batalla, I. 1462 Bassols Batalla, I. 14
Bast, T. F. 3246
Basu, A. 2837
Batalla, I. Bassols 14
Bateman, P. L. G. 7
Batey, R. G. 3104
Batista, H. A. M. 22:
Batra, S. W. T. 1631
Bauer, A. C. 1916
Bauer, B. 1093
Baumyartner, H. 108 1462 2250 Bauer, A. C. 1916
Bauer, B. 1093
Baumgartner, H. 1089
Bautz, A. M. 882
Baxter, R. C. 219
Bay, D. E. 1607, 2432, 2827
Bayer, E. V. 2081
Bazalar, H. 2466
Bazliková, M. 271
Bázliková, M. 3399
Beacham, T. D. 1340
Beadle, D. J. 1944
Beadles, M. L. 441
Beament, J. 2953
Beattie, G. A. C. 1609
Beaty, B. J. 831, 2630
Beaucornu, J. C. 2233
Beaucornu-Saguez, F. 2674
Beaucournu, J. C. 49, 2335, 3181, 3183
Beck, B. E. 1290
Beckemeyer, E. F. 408
Beckewith, M. L. 2498
Bee, L. H. 2170
Beegle, C. C. 197, 2501
Beerwinkle, K. R. 2426, 2765
Begemann, G. J. 2979
Begon, M. 531
Beheri, A. El- 2776
Behl, S. M. 3093
Bei-Bienko, G. Ya. 2823
Beidas, M. F. 613
Beirne, B. P. 1243 Beidas, M. F. 613 Beirne, B. P. 1243 Belgium, Centre de Recherches Agronomiques de l'État 2762 2762 Belkin, J. D. 2946 Belkin, J. N. 583, 614, 2903 Bell, L. J. 1940 Bell, W. J. 26, 789, 2557 Belle, E. A. 845 Bellec, C. 145, 2676, 2677, 2975 2975
Belmonte, A. 368, 2052
Beltaos, S. 1272, 1277, 1278
Belton, P. 2619, 2927
Belyaev, V. I. 2973
Belyaeva, A. P. 253
Bemrick, W. J. 600 Ben-Eliahu, M. N. 874, 1087, 3324, 3325 Ben-Horin, A. 1981 Ben-Joseph, M. 1402 Ben-Tamar, D. 1087 Ben-Zakour, L. 2255 Benach, J. L. 278, 3246 Benner, D. B. 2722 Bennett, G. F. 2045 Bennett, G. W. 2841 Bennett, L. N. 2558 Bennett, S. G. 982 Bennett, S. G. 982
Bennettova, B. 3361
Bentley, P. D. 1439
Benton, A. H. 1514, 2339, 2867, 3378
Beraldo, W. T. 2780
Berardi, V. P. 3182
Berdyev, A. 1636, 2747
Berdyev, B. B. 1023
Beresford-Jones, W. P. 2872
Berg, W. 757 Berg, W. 757

Berger, A. 2922 Bergoch, D. 2040 Berl, D. 429 Berlin, J. 3246 Berlin, O. G. W. 2903 Berman, W. 290 Bernard, G. Vattier- 136 Bernard, J. 1735 Bernardini Mosconi, P. 1484 Bernardini, P. Mosconi 786 Bernardo, M. J. 1851, 1852, 2981
Bernath, R. F. 2582
Berndt, K. P. 913
Bernheimer, A. W. 231
Bernon, G. 3380
Berre, R. le 1702
Berrens, L. 923
Berridge, M. J. 1159
Berry, J. G. 3012
Berry, W. J. 2902
Berti, E. 566
Beskina, S. R. 2745
Bessot, J. C. 1654, 1955
Betancourt E., A. 700, 2218
Betancourt, P. 37
Betke, P. 3350, 3351
Bettag, E. 1530
Bettany, B. W. 2401 2981 Bettany, B. W. 240 Beveridge, I. 692 Bezant, E. T. 1139 Beveridge, I. 692
Bezant, E. T. 1139
Bezuidenhout, J. D. 945, 1643
Bharati, V. S. 3273
Bhaskaran, G. 2834
Bhat, H. R. 2697
Bhatia, S. S. 2288
Bhatnagar, P. 1165
Bhatnagar, P. 1165
Bhatnagar, V. N. 608
Bhodigen, S. Ehlers-2815
Bianco, A. E. 585
Bibikova, V. A. 2318
Bic, G. 758
Bickley, W. E. 2073
Bida, S. A. 521
Bienko, G. Ya. Beï-2823
Bigalke, R. D. 935, 2224
Biggar, R. J. 1375
Bigot, L. 3386
Bîlbie, I. 1788, 2039
Bills, G. T. 467
Billstein, S. 1498
Bilqees, F. M. 731
Bíly, S. 689
Binnington, K. C. 263, 953, Binnington, K. C. 263, 953, 3407 Birkenbeil, H. 2847 Biscoe, M. Tyndale- 2728 Bishara, S. I. 3374 Bishop, D. H. L. 1950, 2630 Bishop, P. M. 2725 Bisoyi, S. 664 Bissig, P. 1438 Biswas, S. 1629, 2059, 2724, 2889 3407 1950, 2630 Biswas, S. 1629, 2059, 27
2889
Bjostad, L. B. 1686
Black, R. R. 696
Blackburn, N. K. 1942
Blackman, R. L. 1995
Blair, H. A. 219
Blaney, W. M. 1685
Blanton, F. S. 131
Blatger, J. Suzzoni- 652
Block, G. D. 1162
Blommers, L. 345, 1178
Blomquist, G. J. 2706
Blondeau, J. 3045, 3046
Blue, W. E. 2040
Blum, M. S. 2205
Blume, R. R. 2425
Blythe, S. P. 669
Boarer, C. D. H. 2215
Bocharova, M. M. 1068
Bock, M. E. 2165
Bock, R. 3125
Boctor, F. N. 1400
Boddy, W. O. 1147
Bodenstein, D. 3354
Bogdanov, I. I. 2871
Bohnsack, K. M. 2073
Böhm, G. A. 787
Bohnsack, K. K. 930
Boike, A. H., Jr. 371

Boĭko, V. I. 1339 Bokshteřn, F. M. 2145 Boldarueva, L. V. 423, Boldarueva, L. V. 423, 1067 Bolen, E. G. 629 Bolin, R. A. 3406 Bolotin, E. I. 2734 Bolton, H. T. 1898 Bondarchuk, A. S. 1032 Bondareva, N. I. 1758, 2596 Bôngrand, P. 520 Boo, K. S. 1200, 1201, 2153 Boo Liat, Lim 817 Boobar, L. R. 1848 Boon von Ochssee, G. A. 2982 Boonstra, R. 1340 Boorman, J. 138, 627, 630, 635 423, 1067 Booth, K. S. 1393 Borba, A. M. 1202, 1203, 1204 Borchel, U. Scheefers- 1838 Borchel, U. Scheefers- 1838 Borčić, B. 237 Borda P., M. R. 1474 Borden, J. H. 2618 Boreĭko, T. A. 1056 Borgia, G. 2454, 2709 Borglund, E. 292, 1673 Borisova, V. I. 1675 Borkent, A. 2427, 2931, 3309 Bořkovec, A. B. 1368 Bornstein S. 1656 Bornstein, S. 1656
Borovsky, D. 91, 2613, 3268
Bosch, R. van den 1432
Boshko, G. V. 1024
Bosler, E. M. 3246 Bosman, B. T. Boston, M. D. Boszko G., J. 1135 65 2577 Bot, J. 1984 Botelho, J. R. 1751, 2491 Botev, B. A. 157 Botham, R. P. 1944 Bottrell, D. R. 2833 Botzler, R. G. 16 Bouare, S. 2996 Bouček, Z. 3056 1650 Bouchalová, J. 1648 Bouchalová, J. 1648 Bouchite, B. 1700 Bouffet, P. 1300 Boulard, C. 877, 1889 Boulard, Y. 57 Boultin, R. W. 582 Bourassa, J. P. 672 Bourdoiseau, G. 873, 1884, 2686, 2687 Bourgeois, F. 1440 873, 1088, Bourgeois, F. Bourgouin, C. 2606 Bourgouin, E. 1207 Bourne, A. S. Bousquet, J. 19 Boutin, C. 520 1964 Boutin, C. 520
Boutonnier, A. 833
Bowdan, E. 3047
Bowen, E. T. W. 2037
Bowen, G. S. 1749, 2629, 3405, 3406
Bowers, S. M. 2863
Bowers, W. S. 350
Bown, D. N. 591, 1194, 1230, 2895, 2918, 2919
Bowser, P. R. 2097 Bown, D. N. 591, 1194, 1230, 2895, 2918, 2919
Bowser, P. R. 2097
Boyer, J. 1419
Boyes, D. 3228
Boyett, J. M. 2046
Bozeman, F. M. 3066
Bozhilova, R. I. 901
Bracke, J. W. 29
Bradley, R. E. 2028
Bradoo, B. L. 793
Bradshaw, W. E. 61, 66, 839
Brady, J. 20, 148, 1685
Brantley, S. G. 1732
Bratt, A. D. 677
Braun, M., III 1672
Braun, V. A. 1
Bray, R. S. 1298, 1299
Breaud, T. P. 2937
Breed, M. 1488
Breed, M. D. 27, 1741
Breeland, S. G. 110
Breev, K. A. 1339, 1594, 2696 Breev, K. A. 1339, 1594, 2690 Brener, Z. 36, 1504

Brenes Madrigal, R. 2138 Brengues, J. 1708, 1714 Brennan, J. M. 3095 Brenner, R. J. 431, 1851, Brenner, R. J. 431, 1851, 1855, 2981
Bres, P. 1826
Brethour, J. R. 2422
Brezina, R. 924, 1647
Brideoake, B. R. 163
Bridges, R. G. 2172
Briegel, H. 1564, 2076
Briers, T. 2173, 3360
Brieze-Stegeman, R. 533, 1720
Briggs, A. R. Mead- 2324
Bright Singh, P. 3276
Brinck-Lindroth, G. 2340
Brinck-P. 2338 Brinck, P. 2338 British Crop Protection Council 755 British Pest Control Association 1138 Broadhead, E. C. 1602 Broce, A. B. 1132, 1896 Brockis, D. C. 2242 Brocklesby, D. W. 936, 940, 946 Brokken, E. S. 346 Bronswijk, J. E. M. H. van 734, 2751, 3094 Brooke, J. P. 2292 Brooks, W. M. 1539 Brossard, M. 2220 Brossut, R. 337 Brothers, W. 48 Brown, A. W. A. 1803 Brown, B. E. 1487 Brokken, E. S. 346 Brown, D. D. 3123 Brown, D. L. Brown, D. T. 1838 Brown, H. E. 1133, 2169 Brown, H. M. 1348 Brown, J. 904 Brown, K. R. 904 1352 Brown, K. R. 1352 Brown, M. A. 3435 Brown, P. M. 3009 Brown, R. E. 1387 Brown, R. P. 2159, 21 Brown, S. J. 252, 710 Browne, J. E. 2141 Browne, L. B. 166, 27 Bruaire, M. 3198 2159, 2160 166, 2702 Bruce-Chwatt, L. J. 2380 Bruce, W. A. 3384 Brummer-Korvenkontio, M. 702
Brun, L. 3068
Brune, H. 1623
Brust, R. A. 622, 1809, 3311
Bryan, J. 2038
Bryan, J. H. 612
Bryant, E. H. 3019
Bryce, I. J. Graham- 2503
Bryginskii, S. A. 2590
Bucci, A. 764
Buchan, P. B. 2798
Buchatskii, L. P. 1025, 3192
Buckholz, R. H. 2423
Budelmann, K. 3395
Buei, K. 464, 3286 702 Budelmann, K. 3395
Buei, K. 464, 3286
Bueno, M. L. 432
Bühlmann, V. 999
Bull, C. M. 963, 1951, 3401
Buil, M. J. 1444
Bulla, L. A. 2643
Bulla, L. A., Jr. 118
Bullini, L. 70, 72, 73, 822
Bunnag, T. 82
Burakova, O. V. 1376
Buralli, G. M. 195
Burgdorfer, W. 234, 966, 967, 2741
Burger, J. F. 1922, 2416 2/41 Burger, J. F. 1922, 2416 Burgess, N. R. H. 1141, 3338 Buriro, S. N. 247 Burkholder, J. E. 349 Purnett Smith F. 2006 Burkholder, J. E. 349
Burnett Smith, E. 2006
Burns, B. R. 268
Burns, E. C. 2209
Burr, M. L. 1975
Bursell, E. 1094, 2682
Burton, J. J. S. 625, 2808
Burton, S. 1608
Büscher, G. 1469

Buschman, L. 455, 904 Bushrod, F. M. 1836 Bussicod, F. M. 1850 Busse, W. W. 2455 Bussicras, J. 223, 1665 Busvine, J. R. 322, 1204, 2314 Buteřko, T. P. 2793 Butenko, A. M. 251 Butenko, A. M. 251
Butler, J. F. 1459, 1898
Butler, L. 1805
Butt, R. 1805
Butt, M. Z. 3356
Butterfield, J. 2456
Bittiker, W. 564, 2526, 2530, 2537
Buyakova, T. G. 1032
Bygrave, A. C. 2759
Cabanac, M. 3116
Cabot, M. C. 3027
Cabrera P., F. A. 3149
Caceres, I. 921
Cagnard, V. J. M. 1826
Cais, L. 557
Calábria, P. V. 2072
Calder, L. 1275
Calderón Aragón, L. del C. 1460 1460 Calderón, L. del C. 1126 Calero, R. 1117 Calheiros, L. B. 870 Calisher, C. H. 1749, 2219, 2629, 2949, 3149, 3405, 3406
Callan, E. McC. 2716
Callec, J. J. 2559
Callican, A. P. L. 2015, 2698
Callot, J. 414, 2052
Callow, L. L. 714, 947
Calvo, M. A. 1637
Camacho-Martinez, F. 726
Cambefort, Y. 917
Camberon, A. L. 65, 1762
Camhi, J. M. 3162
Camicas, J. L. 704, 1411, 1945, 2637
Camin, J. H. 492
Camin, J. H. 492
Camin, J. H. 124, 1129 3406 Camino Lavin, M. 1124, 1129, 1459, 1461 1459, 1461
Camoens, J. K. 2538
Campan, M. 2717
Campbell, A. 240
Campbell, C. C. 618, 2151
Campbell, J. B. 1179
Campbell, J. D. 2910
Campbell, R. S. F. 961
Campos Pereira, M. de 2476
Canada Agriculture Research Campos Pereira, M. de 2476
Canada Agriculture, Research
Branch 2510
Canales Yáñez, I. E. 1125
Cañamares, F. T. 2941
Cancrini, G. 73
Candido, A. Ocampo 1463
Candido, L. M. B. 330
Canese, A. 3174
Canestri-Trotti, G. 12
Čanković, M. 688
Canonica, G. W. 989, 990
Cao, Y. C. 2649
Capapé, C. 2251
Capela, R. A. 1239, 1240, 1532
Capotosto, P. 3228 Capotosto, P. 3228 Capri, J. J. 321, 357 Car, M. 3316 Carcavallo, R. U. 37, 38 Carcavallo, R. V. 1123 Cardinal, H. 69 Carey, A. B. 248, 1403, 1408, 2025 2025 Carey, M. G. 2025 Carley, J. G. 862, 1253, 1840 Carlson, D. A. 64, 648, 649, 762, 1763, 1898, 2272, 2679, 3371 Carlson, M. K. 1802 Carlson, R. B. 474 Carlson, R. B. 474
Carme, B. 861
Carne, P. B. 1454
Carner, G. R. 1687
Carneri, I. 2014
Carneri, I. de 566
Carnevale, P. 1310, 3195
Carney, R. L. 1442
Caron, D. M. 2457

Carpenter, S. J. 2073 Carpenter, T. L. 2367 Carrasquero, B. 37 Carriere, B. 1918, 1919, 1932 Carrillo, J. M. 3393 Carrillo Liz, A. 1126 Carrillo Liz, A. 1126
Carriou, M. L. 140
Carter, J. G. T. 2393
Carter, J. H. 383, 3279
Carter, S. W. 1143
Casabe, N. 1745
Casabe, N. 3169
Casaglia, O. 764
Casals, J. 1637, 1641, 2758
Casarrubias, P. J. 1464
Casida, J. E. 1445, 3435
Casper, E. A. 3065
Caspani, J. R. 1807
Cassiagne, R. 3198
Castillo, C. 561
Castillo, J. M. 2517
Castro, D. del C. 1475 Castillo, J. M. 2517 Castro, D. del C. 14 Castro, D. del C. 1475 Castro Filho, J. de 811 Castro Filho, J. de 811
Castro Gomes, A. de 2970
Castro, J. F. de 2781
Cattell, K. J. 2194
Caughley, F. 3146
Cavallini, C. 10
Cavanaugh, D. C. 1185, 2317
Cavey, W. A. 169
Cawthorne, J. H. 3302
Cech, J. J., Jr. 2090, 2091, 2092
Cedano, M. Velasco, 352 Cedano, M. Velasco 352 Cenesizoglu, E. 519 Centre de Recherches Agronomiques de l'État, Belgium 2762 Centre de Recherches sur les Trypanosomoses Animales,
Upper Volta 3004
Cerf, D. C. 1442
Černý, V. 238, 239, 362, 924,
1646 Cerqueira, E. 2072 Cerqueira, E. J. Lima 3185 Cerqueira, E. J. Lima 3185 Cesaroni, F. 657 Chabaud, A. G. 57, 692 Chabaud, M. 2252 Chadwick, D. P. 3066 Chadwick, P. R. 1144 Chagas, C. 1504 Chaika, S. Yu. 45, 358, 1505, 3132 Chaker, E. 1251, 3304 Chakrabarti, A. 3417 Chakrabarti, K. 3417 Chakrabarti, K. 3417 Chakraborty, M. S. 2620 Chakraborty, S. K. 2620 Chakravarty, A. K. 1266 Chakravertty, R. K. 608 Chakravorty, B. C. 2888 Challier, A. 435, 1095, 1326, 1696, 1698, 1872, 3002 Chalmers, K. 2290, 2291 Cham, K. 2037 Cham, K. 2037 Chamberlain, W. F. 30, 671 Chambers, J. E. 3129 Chambers, M. D. 3278 Chan, K. L. 625, 1657, 3274 Chanas, A. C. 1641 Chandelier, E. L. 330 Chandler, F. W. 2219 Chandra, R. 2374, 3294 Chandrahas, R. K. 2373, 2640 Chandrasekharan, A. 2057, 3223 Chandrashekara, I. 2470 Chang, C. K. 546 Chang, F. B. 1188 Chang Moh Seng 413 Chang, S. C. 1368 Chang, W. F. 2864 Chang, Z. G. 868 Channabasavanna, G. P. 923 Chapman, H. C. 377, 1197, 2258 Chapman, M. D. 739, 2489, 2492 Chapman, N. G. 647 Chapman, R. B. 2274 Charleston, W. A. G. 1172, 2290, 2291

Charlwood, J. D. 1269, 1766, Charmwood, J. D. 1209, 1766, 1769, 1793, 1823, 1908, 2187, 2383, 2874
Charnetski, W. A. 1271, 1272, 1273, 1274, 1275, 1276, 1278, 1290, 1392, 1201 1278, 1280, 1282, 1291 Charpin, J. 520 Charpin, J. 520 Charyev, Sh. 3332 Chastel, C. 1947, 2213, 2233 Chatterjee, A. 2792, 3417 Chatterjee, N. B. 339 Chaudhry, H. S. 1355 Chaudhry, M. 595 Chaudhry, S. 1558 Chaudhuri, P. 23, 1681 Chaudhury, M. F. B. 1859. Chaudhury, M. F. B. 1859, 2998 Chauvet, G. 1706 Chavan, S. R. 1561 Cheetham, R. 1439 Cheke, R. A. 641 Chel'evski, S. 2542 Chelliah, R. V. 1205, 1206, Chemical Society 1433 Chemodanova, L. E. 141 Chen, A. C. 1901, 3032 1433 E. 1415 Chen, A. C. Chen, C. C. 2349 Chen, D. X. 294 Chen, H. B. 2053 Chen, J. Y. Chen, N. Q. Chen, P. S. 2649 1827 2075 Chen, R. H. 293 Chen, R. H. 293 Chen, S. B. 1003, 2760, 30 Chen, W. M. 2604 Chen, X. B. 294 Chen, X. P. 997 Chen, Y. Y. 124 Cheng, M. L. 369, 2035 Cheong, W. H. 625, 1245, 1774, 2885, 3274 1003, 2760, 3098 Chermette, R. 1665 Chernysh, S. I. 667 Chermette, R. 1665
Chernysh, S. I. 667
Cherwonogrodzky, J. W. 1680
Chetwyn, K. N. 3338
Chevallier, C. 1709
Chew, V. 1245
Chhabra, M. B. 32
Chiang, G. L. 3274
Chiarini, C. 806
Chiba, T. 470
Chimtawi, M. 651, 3076, 3326
Chin, T. H. 558, 2855
Chin, W. 618
Ching Lien, J. 847
Chinn, H. R. 1442
Chirov, P. A. 1033
Chizzonite, J. J. 373
Chlebowsky, H. O. 409, 1794
Chmela, J. 1639
Cho, H. W. 1727, 1729
Choon Fah, Liaw 598
Choumara, H. Bailly- 2674, Cho, H. W. 1727, 1729
Choon Fah, Liaw 598
Choumara, H. Bailly- 2674, 3183, 3304, 3403
Chow, Y. S. 926, 3161
Chrin, L. R. 838
Christensen, H. A. 2150, 257
Christin, J. G. 2743
Chrom, V. H. 155
Chubareva, L. A. 1579
Chumakova, I. V. 2868
Chumbley, L. C. 2534
Chumbley, L. C. 2534
Chumbler, L. J. Bruce- 2380
Ciampor, F. 932
Cianchi, R. 72, 73
Cicchetti, R. 774, 1571
Cicolani, B. 660
Cilara, A. 519
Cilek, J. 2929
Clair, M. 873, 1088, 1323, 1324, 1699
Claquin, P. 1562
Clardy, J. 2554
Clare, F. B. 3402
Clarke, J. L., III 1810
Clarke, J. L., III 1810
Clarke, L. 148
Claustre, J. 422, 2358
Clemence, P. 1942 2150, 2576

Clerc, Y. 2389 Clerx, J. P. M. 1950 Cliff, B. 1704 Clifford, C. M. 275, 1949 Clifford, D. J. 1298, 1299, 1305 Cloudsley-Thompson, J. L. Coudsiey-Hompson, J. L.
1723
Coackley, W. 2142
Coates, D. 3272
Coates, T. A. Redding- 3272
Coates, T. W. 648, 762
Coats, J. R. 3123
Cobb, P. E. 1089
Cockbill, G. F. 436
Cockings, K. L. 1316
Coetzee, M. 2946
Cogley, T. P. 3333
Cohen, C. F. 1453
Cohen, E. 3262
Cohen, M. J. 2008
Cohen, S. R. 1965
Coignoul, F. 1413
Coillot, J. P. 1735
Colbo, M. H. 643, 1854, 2974, 3313
Colella, G. 764 1723 Colella, G. 764 Coleman, R. B. 796 Coles, C. W. 2 Coles, C. W. 2
Colina, G. Otero 1462
Collado, J. Gil 243
Collatz, K. G. 3026
Collett, G. C. 381, 3201
Collin, C. Wisnevesky- 1506
Collins, F. H. 2115
Collins, R. C. 2151
Collins, W. E. 576, 618, 834, 843, 2896
Collins, W. J. 749
Cölln, K. 2448
Collombatti M. 990 Colombatti, M. Colombatti, M. 990
Coluzzi, A. 2128 .
Coluzzi, M. 70, 72, 765, 766, 767, 770, 822
Colwell, A. E. 2109, 2385, 2414, 2415, 3013
Combescot, C. 697
Commission of the European Communities 1990, 1991, 1992, 1993, 1994 Commonwealth Mycological Institute 62
Commonwealth Scientific and Industrial Research Organization, Australia 18, 19, 779, 2831
Compton, J. 2092
Conceição, E. L. 1524
Conconi, J. Ramos Elorduy de 1466 Condy, J. B. 1942 Connors, T. A. 1452 Connors, T. A. 1452
Conrat, H. FraenkelConroy, J. A. 2248
Consolim, J. 1202, 1203, 1204
Constantinou, C. 315
Contacos, P. G. 576, 834
Contoreggi, C. 1608
Contreras, N. Hernández 3432
Conway, G. 3146
Cook, B. J. 3341
Cook, I. M. 1903, 3033
Cook, R. W. 3105
Cooney, J. C. 966
Coons, L. B. 304
Cooper, J. F. 2486
Coosemans, M. H. 1708
Coppage, D. L. 452
Coppedge, J. R. 457, 1132, 1133, 2169, 2429, 2434
Corbet, S. A. 2953
Corey, M. E. 1528
Corley, C. 2428
Corliss, J. O. 429
Corneau, B. 140
Cornet, J. P. 1411
Cornet, M. 1244, 2628
Cornillon, J. 1419
Cornish, R. A. 1509
Cornwell, P. B. 3157
Corona, J. de León 1128
Corredor, A. 638 Conrat, H. Fraenkel-Corona, J. de León 1128 Corredor, A. 638

Corrier, D. E. 236 Cory, J. 3081 Cory, J. 3081 Coscarón, S. 463, 1476, 1846 Cosmao Dumanoir, V. 2350 Costa, J. A. Rosas 1149 Costa, N. A. da 2250 Costello, R. A. 397 Cotterell, G. S. 1927 Cotterell, G. S. 1927
Cotterman, S. G. 371
Couch, T. L. 1535
Coulanges, P. 2389
Coulet, M. 1669
Coulson, J. C. 2456
Couprie, B. 1798
Couret, D. 435, 1697, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993
Cousserans, J. 1709
Cova Garcia, P. 579
Covisa Villa, A. 129
Coy, J. R. 177, 193
Coz, J. 310, 1707, 1708
Crabbe, J. R. 2937
Craig, D. A. 2667, 3309
Craig, G. B., Jr. 577, 2901, 2902
Crandall, T. A. 2097 Craig, G. B., Jr. 577, 2901, 2902
Crandall, T. A. 2097
Crane, G. T. 2949
Crans, W. 2996
Crans, W. J. 3292
Cranston, P. S. 2531
Craven, R. B. 2037
Crawford, L. D. 1454
Crespo, O. 1710, 1711, 3298
Crippen, P. H. 2037
Cristakou, H. D. 1768
Cristescu, A. 1184
Croft, S. L. 2866, 2873
Crombie, L. 1434
Crompton, G. W. 3035
Cromroy, H. L. 1091
Crookshank, H. R. 2486
Croome, G. C. R. 1270
Cropp, C. B. 563, 1749
Croset, H. 633
Cross, J. H. 83, 2032, 3221
Crosskey, R. W. 1846, 2670, 2671, 3315
Croydon, J. 2168
Cruden, D. L. 29, 1161
Cruz, D. 1935
Cruz, J. de la 308, 1952
Cruz, W. J. 3258
Cuevas, L. 3149
Cuff, W. R. 1369
Cuisance, D. 873, 1088, 1323, 1324, 1699, 1875, 1884, 2684
Cummins, L. H. 2459 Cummins, L. H. 2459 Cunha Ramos, H. da 2069, 2638 Cunningham, I. 875, 2162 Cuny, R. 683 Cupp, E. W. 431, 1851, 1852, 1855, 2666, 2981 Curdi, J. Lucientes- 3419 Curdi, J. Lucientes- 3419 Curran, C. H. 2587 Curre, R. A. 1274, 1275 Curry, J. P. 324 Curtis, C. F. 616, 825, 1100, 1795, 2048, 2366, 2370, 2405, 2928 2405, 2928 Cuy, L. S. 3416 Cybinski, D. H. 862, 1253, 3303 Cyprich, D. 3087 Cyprus, Ministry of Health 370, 3267 Czechowski, W. 229 Czeczuga, B. 800 Da Costa, N. A. 2250 Da Cunha Ramos, H. 2069, 2638 Da Rocha e Silva, E. O. 812, 3173 Da Rosa, A. P. A. Travassos 2627, 2655, 2656, 3224 Da Rosa, J. F. S. Travassos 2655, 3224

Da Rosa, J. F. Travassos 2656 Da S. Guedes, A. 2049

Da Silva, G. Rodrigues 3172 Da Silva Mattos, S. 2049, 2072 Da Silva Passos, G. A., Jr. 2857 Dadd, R. H. 1238, 2608, 3214 Daddow, K. N. 2129 Dahlman, D. L. 2441, 2789 Dailey, M. D. 2228, 2229 Dahlman, D. L. 2441, 2789
Dailey, M. D. 2228, 2229
Dale, P. S. 2516
Dalgarno, L. 582
Dalgliesh, R. J. 1938, 3088
Dallwitz, M. J. 928
Dalton, T. 3029
D'Amato, L. A. 2441
Dame, D. A. 65, 846, 1089, 1762, 1816, 3226, 3236, 3243 3243 3243 Dandawate, C. N. 3276 Dang, K. 967 Dang, P. T. 143, 1533 Daniel, M. 238, 239, 362, 924, 930, 1646 Daniel, V. Py- 1846, 2155 Danilović, V. N. 77, 410, 1548 Danilović, V. 3109 Danish Pest Infestation Danish Pest Infestation
Laboratory 1479
Danner, G. 802
Dario, J. G. 2818
Darji, N. 149, 1085, 1312
Darsie, R. F., Jr. 3237
Darwazeh, H. A. 78, 2084, 2106, 2107
Das, A. B. 1490
Das, B. K. 23, 1681
Das, M. 2057, 2599
Das, P. K. 2373, 2623, 2640, 3218, 3269 3218, 3269 s, S. 1845 Das, S. 1845 Dascal, N. 483 Dashkova, N. P. 405 Dashkova, N. P. 405 Datta, A. 3223 Datta, K. K. 2599 Datta, S. 553, 2505 Dauterman, W. C. 206, 1606 Davey, K. G. 2858, 2859, 3170, 3175 3170, 3175

Davey, R. B. 256, 494, 975, 1935, 2739, 3071

Davidson, E. W. 2258

Davidson, G. 616, 2382

Davidson, W. R. 1679

Davies, D. M. 2153

Davies, F. G. 1551

Davies, I. 158

Davies, J. B. 1704, 1705, 2672

Davies, J. H. 1444

Dávila, O. 1465

Davis, E. E. 976

Davletklychev, A. A. 1521 Davist, E. E. 976
Davietklychev, A. A. 1521
Davydova, E. D. 2289
Dawson, J. 3034
Day, J. F. 1514, 2339
Daynes, P. 3061, 3068
De Alzuet, A. B. 984
De Armas, L. F. 308, 745, 3432 3432 De-Azevedo, E. M. V. Milward-1747 De Barjac, H. 1207, 1798, 2350, 2606 De Campos Pereira, M. 2476 De Carneri, I. 566 De Castro Filho, J. 811 De Castro Gomes, A. 2970 De Castro, J. F. 2781 De Conconi, J. Ramos Elorduy 1466 De Deffis, M. 351 De Dulanto, F. 726 De Freitas, E. N. 3224 De Haro Arteaga, I. 352 De Hoyos, P. M. 432, 638, 2156 De Kort, C. A. D. 3134 De la Cruz, J. 308, 1952 De la Iglesia, F. A. 804 De la Serna de Esteban, C. J. De la Torre, F. A. 1125 De Lello, E. 1588, 1589, 3334

De León Corona, J. 1128 De Licastro, S. De Licastro, S. 35
De Licastro, S. A. 1745
De Lima, C. P. F. 1107
De Lomas, J. García 3308
De Loof, A. 2173, 2701, 3360
De Lucca, F. L. 2857
De Man, W. 3360
De March, B. G. F. 1279 De March, B. G. E. 1279, 1281 De Meillon, B. 1248 De, N. 1845 De Oliveira Filho, A. M. 350, 560, 807, 1746
De Oliveira Filho, A. M. de 1507 De Oliveira, J. L. 1747
De Oliveira, T. S. 3167
De Paoli, C. 10
De Raadt, P. 1311
De Santis, L. 555 De Souza Lopes, O. 2949
De Souza Lopes, O. 1259
De Ugueto, C. Escalante 579
De Vasquez, A. M. 2576
De Villar, M. I. P. 35, 1745
De Vos, A. J. 948
De Wolf, A. 1593
De Zubeta J. 617 De Zulueta, J. 617 Dean, B. V. 1975 Dearn, J. M. 2199 Dearn, J. M. 2199
Deb-Kirtaniya, S. 2792
Deco, M. A. di 765, 766, 770
Dedet, J. P. 2147, 2660
Deesin, T. 2945
Defang, K. 680
Deffis, M. de 351
DeFoliart, G. R. 2935
Degallier, N. 2358
Deibel, R. 3246
Dejoux, C. 1508, 1690, 1691
Del C. Calderón Aragón, L. 1460
Del C. Castro, D. 1475
Del var Petersen, H. 2431
Delattre, P. Y. 861
Delecolle, J. C. 160, 1251, 3299 3299 3299
Deline, T. R. 1889
Deli'Uomo, G. 3063
DeLoach, J. R. 452, 892, 1901, 2418, 2437, 3030, 3032, 3367
Dempah, J. 310
Denison, M. S. 3129
Denlinger, D. L. 1611
Dennis, D. T. 1961
Dennis, J. A. 193
Department of Agriculture, Northern Ireland 2212 Northern Ireland 2212 Department of Primary Industries, Queensland 16 Department of Veterinary and Tsetse Control Services, Zambia 1308, 1333 Depczyk, J. 2707 Depczyk, M. Adamkiewicz-Depner, K. R. 1271, 1272, 1273, 1280, 1282, 1283, 1291, 1292 1291, 1292
Der Hammen, L. van 1957
Der Molen, J. N. van 201
Der Schaal, A. W. J. van 201
D'Erme, A. 771, 772, 773
Derouin, F. 2147
Des Rochers, B. 2086, 2087
Desch, C. 279
Desch, C. E. 1001, 1002
Desch, C. E., Jr. 927
Deshevykh, N. D. 88
Deshmukh, M. B. 1364 Deshmukh, M. B. 1364 Deshmukh, P. B. 1561 Deshpande, S. B. Desière, M. 225 Desjeux, P. 2147 2181 Desjeux, P. 2147 Deslongchamps, P. 180 Desmoras, J. 758 Desser, S. S. 142 Desset, M. C. Durette-1806 Dessouki, S. El- 1599 Detinova, T. S. 1610 1599 Detry, M. 1372

Deubel, V. 2637 Dev, V. 601 DeVaney, J. A. 2764, 2765 Devdariani, Ts. G. 209 Devine, T. L. 1969 Dewan, Z. U. 1562 Dewan, Z. U. 1562 Dewhurst, C. F. 3385 Dhadialla, T. S. 2998 Dhaliwal, S. S. 625, 3274 Dhillon, M. S. 78, 2916 Di Deco, M. A. 765, 766, 770 Di Luciano, V. S. 3177 Dias, A. P. A. L. 1580, 2399

Dias, J. A. Travassos Santos

Dias, J. A. 11. 1404 Dias, J. C. P. 3172 Diaz, B. Sánchez 5, 6, 561 Diaz, B. Sanchez 5, 6, 561
Diaz-Nájera, A. 2398
Dicker, R. W. 3079
Dickerson, W. A. 1999
Dickinson, R. G. 263
Dickson, S. L. 3211
Diehl, P. A. 270, 271
Digoutte, J. P. 1637, 1826, 2038, 2637, 2758, 3295
Dikesey, R. Vin 1041 2038, 2637, 2758, 3295 Dikaev, B. Yu. 1941 Dillard, C. R. 2891 Dillwith, J. W. 2706 Dimova, V. I. 1385 Dinkel, J. 2668 Dinulescu, D. 980 Dipeolu, O. O. 500, 3415 Disi, A. M. El- 365 Dittrich, L. 1939 Division of Animal Health, CSIRO. Australia 779 CSIRO, Australia 779, 2832 2832 Division of Entomology, CSIRO 18, 19, 2831, 2895 Dixon, K. E. 2656, 2657 Djigounian, A. 1254, 1255 Do Prado, A. P. 195, 2268 Doane, O. W., Jr. 1906 Dobbelaere, D. A. E. 2215, 3075 3075
Dobrokhotov, B. P. 496
Dobrynski, L. 1562
Dobrzynski, L. 2371
Dobson, R. M. 1972
Dodd, G. D. 1143
Doesburg, P. H. van 1017
D'Offay, R. M. 1825
Dohany, A. L. 725, 1412, 1973, 1974, 2812
Dolan, T. T. 246
Dolder, H. 808, 1510, 2022
Dominguez Rubio, Y. 1466 Dolder, H. 808, 1510, 2022
Domínguez Rubio, Y. 1466
Domrow, R. 508, 1416, 1653, 2659, 3102, 3103
Donato, H., Jr. 460
Dongre, T. K. 2056
Donnellan, J. F. 2194
Donnelly, F. B. 182
Donnelly, J. 3398
Dorn, S. 3436
Dorzh, Ts. 2691
Dos Santos, I. 2139
Doster, G. L. 2001
Doszhanov, T. N. 446, 681 Dos Santos, I. 2139
Doster, G. L. 2001
Doszhanov, T. N. 446, 681
Dotoum, B. 1303
Dou, G. L. 567
Doube, B. M. 959
Doucet, M. M. 58
Douthwaite R. L. 872 Douthwaite, R. J. 87 Dowling, D. F. 2742 Downe, A. E. R. 810 Dozey, J. Stenton-Drabek, J. 1440 Drager, N. 2241 Dräger, N. 2241
Drerup-Eilker, K. 2752
Dreyer, D. 1341
Driggers, D. P. 3234, 3235
Drobozina, V. P. 2596
Drummond, R. O. 256, 441, 494, 2739, 2853
Du Plessis, J. L. 945
Duarte Espinoza, G. A. 2138
Dubash, C. J. 2377
Dubyanskaya, L. D. 1516
Dubyanskiř, M. A. 1516
Dudich, A. 1752 Dudich, A. 1752

Author Index Duhrkopf, R. E. 2036, 2631, 2930 Dujardin, J. P. 1853 Dulanto, F. de 726 Dulmage, H. T. 2501 Dumanoir, V. Cosmao 2350 Dumanoir, V. Cosmao 2350 Dumas, J. P. 672 Duncalfe, F. 3088 Duncan, P. 2185, 3034 Dunn, J. C. 2464, 2738 Dunn, J. E. 2465 Dunning, L. L. 1953 Dunwell, G. H. 258, 259, 260 Dupras, E. F., Jr. 2109, 2112 Durand, P. 958 Durbaca, S. 1184 Durden, L. A. 1189 Dureja, P. 2506 Duprette-Desset, M. C. 692 Durette-Desset, M. C. 692 Duriez-Vaucelle, T. 1669 Durović, M. 3109 Dusbábek, F. 238, 239, 283, 924, 1646 Dusoge, K. 1917 Dusoge, K. 1917
Dutschewska-Kothes, Y. 1136
Dutt, A. K. 2372
Dutt, S. C. 3093
Dutta, H. M. 2372
Duvallet, G. 644
Duve, H. 887, 2711
Dvorak, D. R. 2193
Dwivedi, S. R. 103
Dyachenko, M. A. 1034
Dyagileva, G. M. 1028
Dvar, H. G. 2073 Dyagileva, G. M. Dyar, H. G. 2073 Dyson-Hudson, R. 751 Dzhanokmen, K. A. 156 Eads, R. B. 44 Eason, G. 2 Eads, R. B. 44
Eason, G. 2
East, J. 650
Easton, C. 1626
Eaton, B. T. 2961
Eberle, M. W. 342
Eby, J. E. 2089
Eckert, H. 1361
Eckert, M. 787 Edinburgh School of Agriculture, United Kingdom 2761 Edler, A. 921 Edman, J. D. 1529, 2395, 3353 3353
Edungbola, L. D. 637
Edwards, A. 799
Edwards, A. 799
Edwards, A. J. 2848
Edwards, J. P. 2726
Edwards, J. P. 2726
Edwards, M. 694
Edwards, P. B. 2143
Edwards, R. 484
Edwards, S. J. 1118, 1119, 1120, 1121, 3147, 3148
Edwards, T. D. 374, 1814
Edwards, W. C. 230
Egerton, J. R. 2248
Egorov, V. V. 307
Ehlers-Bhodigen, S. 2815
Ehrlich, V. D. 2596
Eibisch, H. 787
Eichler, W. 1152, 2567
Eilker, K. Drerup- 2752
Eisa, M. 1520
Ejezie, G. C. 2003
El Atrous, L. 2256
El-Beheri, A. 2776
El-Dessouki, S. 1599
El-Disi, A. M. 365
El-Fattah, A. S. A. Abd- 879
El-Fiki, S. 761
El-Kammah, K. M. 718
El-Masry, S. A. 562
El-Molla, E. H. 562
El-Nabawi, A. 3394
El Rab, M. O. Gad 1596, 2192
El-Refaii, A. H. 2756, 3374 Edungbola, L. D. 2192 2192 El-Refaii, A. H. 2756, 3374 El Said, A. 497 El-Sawaf, B. M. 478, 2720 El-Sawy, M. F. 562 El-Sebae, A. H. 761 El-Sherif, A. F. 562 El-Sinnary, K. 585, 1841

Ela, S. M. Abul- 3344, 3345 Ela, S. M. Abul- 3344, 334 Elbadri, E. A. 3394 Elbel, R. E. 2949 Elce, B. J. 1335 Elder, J. K. 258, 259, 260 Elger, B. 469 Elger, M. 187 Elghar, M. R. Abo- 3394 Eliahu, M. N. Ben- 874, 1087, 3324, 3325 Sistery, B. L. 3066 Eliseev, L. N. 2146 Elkhalfane, A. 2166 Elliott, M. 1378, 1433, 1435, 1985 Elliott, S. A. 1550 Elliott, W. 1386 Ellis, D. S. 1181 Ellis, E. A. 2077 Ellis, R. A. 1197, 1533 Elorduy de Conconi, J. Ramos 1466
Elouard, J. M. 1691, 1849
Elsen, P. 427, 428, 2673
Elson, M. M. 863
Elzinga, R. J. 2827
Emanuelsson, H. 462
Emberson, R. M. 2482, 3092
Emel'yanova, O. Yu. 721
Emery, D. L. 1878, 2164
Emmerson, F. R. 258, 259, 260 1466 Emmons, R. W. 1225, 2081 Emscu, A. 2176 Engelmann, F. 1489 Engler, R. 1540 Engler, S. 1249, 1250 Enord, D. E. 1528 Entente Interdépartementale pour la Démoustication du Littoral Méditerranéen, France 2954, 2955, 3265, Entomological Society of Korea Entomological Society of Korea 1726
Eouzan, J. P. 1700, 2994
Erbendruth, W. 802
Eremina, L. G. 3040
Ergashev, N. E. 2778
Erlikh, V. D. 2596
Ermakov, A. A. 1211, 2593
Ermishev, Yu. V. 1758
Ernst, A. 3154
Eroles, L. C. 3127
Ershov, N. E. 2735
Ershova, A. S. 255, 1399
Escaffre, H. 433, 1703, 2678
Escalante de Ugueto, C. 579
Eshghy, N. 2911, 2912
Espie, I. W. 1341
Espinoza, G. A. Duarte 2138
Essen, F. W. van 2042
Esteban, C. J. de la Serna de 524 1726 Estes, S. A. 1980 Estea, S. A. 1980
Estrada Peña, A. 3419
Ethier, D. B. 2007
Etingof, R. N. 3153
Etkind, P. H. 3182
Eto, M. 1450, 2261
Etten, J. van 1313, 2685, 3000
Ettershank, G. 2729
Ettershank, J. A. 2729
Evans, D. A. 1181 Ettersnank, J. A. 2729
Ettershank, J. A. 2729
Evans, D. A. 1181
Evans, G. O. 302
Evans, P. D. 1159, 1431
Evans, W. S. 1625
Evdokimov, E. S. 1013
Evenhuis, H. H. 890
Evenhuis, N. L. 1210, 1241, 2124, 3139
Everitt, B. 1662
Evers, R. H. J. 2157
Everts, J. 2982
Evstaffev, M. N. 440, 1590
Ewig, J. D., Jr. 481, 1628
Ewing, S. A. 2222, 2223
Exner, S. 778
Eyravo, M. 1326
Eyre, P. 1889
Ezell, W. B., Jr. 2910
Ezike, V. 2918, 2919
Fabbri, L. 992

Fabiyi, A. 1194, 2037, 2216
Fabiyi, J. P. 1493, 2013, 2569
Fabricius, J. C. 905
Fabritius, K. 472, 1895
Fadzil, M. 2803
Fagbami, A. H. 2956
Fah, Liaw Choon 598
Fain, A. 284, 286, 300, 301, 732, 733, 734, 737, 921, 1000, 1004, 1847, 1853, 2237, 2480, 2483, 2484, 2485, 2659, 2673, 2769, 2770, 2771, 2772, 3096, 3423 3423 3423 Fairchild, G. B. 1597 Fairhurst, C. 1096 Fales, H. M. 1400 Falk, E. S. 1421 Fallas B., F. 2154 Fan, P. C. 2349 Fan, P. F. 294, 3098 Fanara, D. M. 1746, 2819 Fanta, J. 3316 Faran, M. E. 3248 Faran, M. E. 3248
Farhang-Azad, A. 2321
Farley, D. G. 2093, 2096
Farley, R. D. 461
Farmer, H. 2766
Farmer, J. N. 2259
Farnham, A. W. 1985
Farnsworth, D. E. 1371
Farooq, S. 1443
Farr, R. C. 1783
Farthing B. R. 2440 Farr, R. C. 1783
Farthing, B. R. 2440
Fasani, F. 991
Fast, P. G. 597, 2501
Fatland, C. L. 2277
Fattah, A. S. A. Abd-El- 879
Faublée, V. 327
Faulkenberry, G. D. 2586
Fauran, P. 736, 3339
Faux, A. F. 889
Fava, A. 2544, 2545
Fawcett, A. A. 3073
Fay, R. W. 2126
Feachem, R. G. 2370
Federici, B. A. 394, 611, 2084, 2882 2882 Fedin, A. N. 1485 Feider, Z. 741 Feinsod, F. M. 2062 Feir, D. 544 Feldlaufer, M. F. 342 Feldman-Muhsam, B. 300, 1402 Feliciangeli, M. D. 353, 419 Feliciangeli, M. D. 35 Fell, D. 1160 Felton, C. L. 3009 Feng, W. C. 967 Fenglian, H. 680 Fenguun, W. 680 Ferguson, A. C. 2227 Ferguson, K. J. 3302 Ferguson, L. 181 Ferguson, J. 2010 Fergusson-Laguna, A. 2644 Fergusson-Laguna, A. 2644
Fernández, E. 353
Fernandez, J. M. 2071
Fernández, N. A. 321
Fernández, P. García 3078
Ferrand, G. 3199
Ferrar, P. 2196
Ferrara, L. 393, 1700, 2037, 2038, 2688
Ferraroni, J. J. 1767
Ferreira Santos, J. L. 2575, 2970 2970
Ferrell, R. E. 369, 2035, 2940
Ferro, D. N. 2274, 2481, 2482
Ferrucci, L. 388, 1831, 2894
Fetisova, N. F. 3399
Feuerborn, C. Trepte- 475
Fevrier, J. 1088, 1884, 2684
Fichoux, Y. le 1967
Fidalgo, P. 555
Field, W. N. 3291
Figueroa Marroquin, H. 2151
Fiii. Ministry of Agriculture 2970 Fiji, Ministry of Agriculture and Fisheries 1658 and Fisheries 1658 Fikey, M. S. El 2497 Fiki, S. El- 761 Filipchenko, V. E. 1516 Filippich, C. 862, 1253 Filippova, N. A. 3080

Filippova, V. V. 1548 Fincher, G. T. 2426 Finelle, P. 1083, 1874 Finlayson, L. H. 2403 Finney, J. R. 1817, 3206 Fiore, S. L., Jr. 1176 Fischer, H. M. 1570 Fischer, H. M. 15/0 Fischer, U. 3436 Fish, D. 2901, 2902 Fisher, T. W. 677, 2345 Fishwick, F. B. 2509 Fitzgerald, S. A. 2037 Fivaz, V. 2220 Flacke, W. 2404 Flannagan, J. F. 1279, 1 Flacke, W. 2404 Flannagan, J. F. 1279, 1 Flaviano, A. 1566, 1567 Fleetwood, S. C. 3278 Flesjå, K. I. 1424, 1425 1279, 1281 Flesja, K. I. 1424, 14 Fletcher, K. C. 2234 Fletcher, M. J. 1454 Fletcher, M. R. 3009 Fletcher, P. L., Jr. 52 Fletcher, T. B. 1152 Fletcher, P. L., Jr. 522 Fletcher, T. B. 1152 Florkiewicz, R. Z. 1839 Flower, P. J. 285 Floyd, M. 1407 Flück, V. 1438 Focks, D. A. 65, 1756, 1762, 2125, 2126, 3226 Foedorova, M. V. 594 Foehse, M. C. 2436 Foil, L. D. 304 Folorunsho. O. J. 1309 522 Folorunsho, O. J. 1309 Fominykh, V. G. 3040 Fondren, J. E., Jr. 191 Fondren, J. E., Jr. 191
Food and Agriculture
Organization 1082, 2825,
3128, 3327, 3328
Forattini, O. P. 1256, 1744
Ford, J. 1318, 1587
Ford, M. G. 2788
Foreyt, W. J. 2186
Forrester, D. J. 837
Forsyth, B. A. 170
Fortunato, P. J. 592
Foster, G. G. 167, 668, 1897,
2202, 2435
Foster, G. W. 837
Foster, T. S. 1451
Fourie, P. B. 485
Fourtner, C. R. 1166, 3156
Fowler, H. G. 2555
Fowler, J. E. 1816
Fowler, H. G. 2555
Fowler, J. E. 1816
Fowler, J. E. 1816
Fowler, N. O. 309
Fox, I. 2136, 3247
Fraenkel-Conrat, H. 525
Fraenkel, G. 3038, 3361
Fraenkel, G. S. 2834
Fraina, H. 1256, 1257, 1258, 1259 Food and Agriculture Fraiha, H. 1256, 1257, 1258, 1259 França, J. T. 3167 France, Entente Interdépartementale pour la Démoustication du Littoral Méditerranéen 2954, 2955, McInterraneen 2934, 293 3265, 3266 Franceschini, N. 3041 Francke, O. F. 1008 Franco, M. G. 665 Francy, D. B. 44, 393, 563, 1749, 2037, 2038, 2074, 2219, 2629, 2914, 2944, 1/49, 2031, 2031, 2031, 2044, 3405, 3406
Frank, J. H. 1482
Franklin, R. 2557
Franssen, F. F. J. 2225
Frantsevich, L. I. 2830
Franz, M. 605
Fredeen, F. J. H. 2669
Freitas, E. N. de 3224
Freitas, R. B. 2655, 3224
French, A. S. 1491
Frey, C. 1506
Freyvogel, T. A. 842, 319.
Frézil, J. L. 2994
Frezil, S. L. 1310
Friedhoff, K. 1394
Friedman, S. 2834
Friend, W. G. 1238
Friesen, M. K. 1279
Frietas, E. N. 2898 842, 3196

Fripp, P. J. 1153 Frischknecht, M. L. 3436 Frommer, R. L. 2122, 2400, 2976, 2977 Frost, D. B. 2130 Fry, L. 347 Fuchs, M. S. 125, 592, 1542, 1761, 2595, 2598 Fudalevich-Nemchik, V. 548 Fudaievich-Nemchik, Fuhrmann, F. 1525 Fujita, Y. 2502 Fukai, K. 3286 Fukoto, T. R. 2265 Fukuda, T. 3250 Fukui, M. 785 Fukushima, H. 880 Full, R. J. 2556 Füller, H. 3154 Fultz, T. O., Jr. 383 Funatsu, M. 891, 1904, 2450 Fussell, E. M. 2920 Fye, R. L. 455, 904 Fyfe, R. 954 Gaaboub, I. A. 1754 Gaafer, S. A. 2646 Gabre, W. 2776 Gabriel, M. 739 Gad, A. M. 1198, 1199 Gad El Rab, M. O. 1596, Fukushima, H. 880 Gad El Rab, M. O. 1596, 2192 2192 Gaddis, C. H., Jr. 1387 Gadzhizalov, D. M. 899, 900 Gaĭdamovich, S. Ya. 3307 Gainsburg, D. M. 3404 Galati, E. A. B. 2970 Galindo, J. Gutiérrez 3419 Galindo, P. 583, 584, 2078, 2923
Gall, B. G. 27
Gallahan, D. 751
Gallinelli, G. 758
Galloway, I. D. 1454
Galowalia, M. M. S. 203
Galun, R. 874, 1087, 1471, 2326, 3324, 3325
Gammon, D. W. 3435
Gander, E. S. 842
Ganguly, S. K. 2374, 3294
Garber, M. 3182
García Ávila, I. 849
Garcia, B. A. 1442
Garcia, C. 3250 Garcia, B. A. 1442
Garcia, C. 3250
García de Lomas, J. 3308
García, E. S. 354, 3171
García, F. Rodríguez 3308 García Fernández, P. Garcia, J. C. 1768 Garcia, J. C. 1768
Garcia, P. Cova 579
Garcia, R. 1246, 2086, 2087
Garcia R., R. 1464
García Yáñez, Y. 352
Gard, G. P. 2033
Gardiner, B. O. C. 809
Gardiner, P. R. 875, 2162
Garms, R. 1581
Garrett, W. D. 373
Garrido, G. C. 116
Garris, G. I. 1936
Garry, R. F. 835

Garza, J. G., Jr. 256 Garza, J., Jr. 494, 975 Gaskins, C. B. 914 Gáspár, M. Lovász-1436 Gasperi, G. 2171 Gataky, G. J., Jr. 1670 Gatehouse, A. G. 2680 Gates, D. B. 1089 Gaugler, R. 1858, 2396, 2397 Gaven, B. 93, 581, 1710, 1711, 2886, 3266, 3296, 3297, 3298 3298 3298 Gawaad, A. A. A. 1623 Gaxotte, P. 833 Gearhart, H. L. 604 Gebert, F. Webb- 3141 Geck, R. 2495 Gee, J. D. 1431 Geevarghese, G. 3090 Geis, K. U. 3055 Gelashvili, D. B. 307 Gemperlein, R. 2177 Genov, T. 689 3090

George, T. D. St. 862, 866, 1253, 3303 Georges, A. J. 2066 Georghiou, G. P. 392, 1221, 1683, 2104, 2105, 2110, 2353, 2877, 2924, 3238, 3281 3281 Geraerts, W. P. M. 1489 Gerberg, E. J. 626 Geren, C. R. 2498 Gerhardt, R. R. 661 Germain, M. 393, 1411, 2037, 2038, 2637 2038, 2637 Germond, J. E. 270 Gerold, J. L. P. A. 2878 Gerrish, R. R. 1155 Gersch, M. 787 Gerson, U. 931 Gerwen, A. C. M. van 2702 Cattiply, G. 2 Gettinby, G. 2 Gheorghiu, T. 95 Gheorghiu, T. 95 Ghiasuddin, S. M. Ghizdavu, I. 1012 Ghose, J. N. 1260 Ghosh, K. K. 1845 Ghosh, M. R. 2792 Ghosh, T. K. 1260 Giang, P. A. 2829 1736 Giang, P. A. 2829
Giangrande, A. 73
Giannetti, M. 646, 1092
Giannotti, O. 1160
Giap, G. 1798
Gibbons, D. S. 1926, 1927
Gibbons, K. 2699
Gibbs, P. H. 2400, 2976
Gibet, L. A. 491
Gibney, V. J. 1179
Gichang, M. M. 2737
Giglioli, M. E. C. 626, 3205
Gijon, E. Pascual Sánchez-129 Globert, B. 560, 807, 1746
Gilbert, B. 560, 807, 1746
Gilbert, B. N. 441, 974
Gilby, A. R. 1159
Gilfillan, R. F. 3182
Gill, B. J. 801
Gill, K. 1442
Giller, P. S. 1223
Gilles, T. C. 861
Gilles, T. C. 861
Gilles, M. T. 613, 1792, 2363
Gillies, S. 1834, 1835
Gillies, S. 1834, 1835
Gillien, C. 540
Gillott, C. 540
Gillott, C. 540
Gillott, C. 540
Gillott, B. 2743
Gimeno, A. L. 3115 129 Gilot, B. 2743 Gimeno, A. L. 3115 Ginevan, M. E. 314 Ginoux, P. Y. 2994 Giurca, I. 75, 1184, 2039 2039
Glancey, B. M. 1388, 3058
Gleich, G. J. 1933
Glicken, A. 2002
Glines, M. V. 240
Glover, A. 1388, 3058
Glukhov, V. F. 1029
Glukhova, V. M. 3300
Glushchenko, N. P. 1030
Goddeeris, B. 123, 1900
Godtel, M. S. 412
Goff, M. L. 513, 981, 1005, 1422, 1796, 1968, 2235, 2237, 3095, 3426, 3428
Goldbaum, M. 3172 Goldbaum, M. 3172 Goldberg, L. J. 2085 Goldenberg, S. 1981 Goldenberg, S. 198 Golder, T. K. 149 Goldsmith, E. 143 1432 Goldsmith, E. 1432 Goldsworthy, G. J. 1685 Golini, V. I. 1902 Gollands, B. 417 Golubovskiř, N. Yu. 1027 Gomes, A. de C. 2970 Gomes, M. L. C. 2655, 2658 Gomez, M. S. 1971 Gomez, M. V. 1677 Goncalyes Filho W. 2857 Gonçalves Filho, W. Goncharov, A. I. 816 Goncharova, A. A. 1032 Gong, Z. D. 569, 2246 Gonidec, G. le 1244

González, A. 1473 González, D. 1427 González, E. F. 236 Gonzalez, J. P. 2066, 3295 González-Ramos, M. 291 Goode, J. 3151 Goodenough, J. L. 1132, 2169 Goodenough, J. L. 1132, Goose, J. 2325 Gopaklo, E. L. 1025 Gopalakrishna Reddy, T. Gorchakovskaya, N. N. Gordon, A. E. 2666 Gordon, D. C. 1442 2494 1036 Gordon, B. C. 1442 Gordon, E. N. 2119 Gordon, M. A. 2240 Gordon, S. W. 1196 Gorkalo, E. L. 1757 Gorkalo, E. L. 1757 Gornostaeva, R. M. 416, 2647, 2648 2648 Gorodinskiř, A. I. 3153 Goryshin, N. I. 1 Gothe, R. 498, 757, 3395 Goulding, R. L. 2267 Gouteux, J. P. 1696, 1872, 2989, 2990, 2991, 2992, 2993, 3320 Goyette, D. 2063 Gozhenko, V. A. 1031, 3191, 3263 3263 Gradanin, S. 688 Gräfner, G. 1721 Graham-Bryce, I. J. 2503 Graham, L. L. Mackenzie-3244 Graham, N. P. H. 162 Graham, N. P. H. 162 Graham, O. H. 1132, 1362 Grainger, C. R. 1825 Gramiccia, G. 829 Granata, A. R. 3115 Granata, L. 786 Granath, W. O., Jr. 628, 1390 Grandjean, P. H. Vercammen-1660 Granett, J. 1848 Granger, N. A. 3134 Grant, B. 1608 Grant, C. D. 2079, 2385, 2411, 2495 Grant, C. D. 2079, 2383, 2411, 2495
Grant, L. S. 845
Gratz, N. G. 1555, 2315
Graves, P. M. 1549
Gray, A. J. 1452
Gray, A. R. 184, 1870
Gray, J. S. 1635
Gray, M. A. 2162
Grayson, M. A. 3246
Greathead, D. J. 437, 2532
Grebenyuk, R. V. 1033
Green, A. W. 1630
Green, C. A. 81, 1545
Green, D. B. 1717
Green, P. E. 194
Greenberg, B. 1730
Greenberg, J. 2266, 2267
Greene, A. 2457
Greenstone, M. H. 1483
Greenwood, R. 2788 Greenstone, M. H. 1483 Greenwood, R. 2788 Greer, K. E. 915 Gregor, F. 3016 Gregory, M. W. 2239 Greig, W. A. 1298, 1299 Grešíková, M. 3069 Gretz, G. H. 2700 Greuter, H. 1438 Greve, J. H. 1978 Griffith B. B. 845 Griffiths, B. B. 845 Griffiths, C. L. 2439 Griffiths, D. A. 193 Griffiths, D. A. 193 Grigolo, A. 2171 Grimmer, O. 3106 Grimstad, P. R. 577, 2900 Grinnell, E. R. 556 Grodhaus, G. 2081 Grokhovskaya, I. M. 318, 491, 2745 Gromashevskiĭ, V. L. 251 Grootenhuis, J. G. 709, 24' Grosscurt, A. C. 466, 1449 Grunewald, J. Grupp, G. 309 Grupp, I. L. 309 Gruvel, J. 1694, 1868, 1876, 1879

Grzybkowska, M. 679 Grzywiński, L. 2564 Gsell, L. 1438 Guan, L. R. 421, 868 Guarita, O. F. 812 Guarita, O. F. 812 Gubaïdulin, N. A. 88 Guedes, A. da S. 2049 Guedes, A. S. 1016 Guediche, M. 2256 Guelte, L. le 3116 Guenther, P. E. 1644 Guerin, B. 1964 Gueron, M. 309 Guevara Pozo, D. 3117 Gueve A. 1301 Gueye, A. 1301 Gugushvili, G. K 3408 Guigusnvin, G. K. 3408 Guidali, F. 1484 Guiguen, C. 49 Guillen Llera, J. L. 243 Guillén Oquendo, M. 3078 Guillet, J. C. 1735 Guillet, P. 433, 1508, 1703, 2678 Guillot, F. S. 3427 Guillot, J. 1669 Guillot, F. S. 342/
Guillot, J. 1669
Guilloteau, J. 832
Guillozet, N. 2453
Guilvard, E. 368, 2149
Guimarães, J. H. 195
Guinardi, A. T. 2820
Gunardi, A. T. 2820
Gundel, M. 338
Gunders, A. E. 3074
Gunther, F. A. 1684
Gupta, A. K. S. 311
Gupta, A. P. 544, 2555
Gupta, B. L. 2175
Gupta, B. L. 2175
Gupta, S. L. 2837
Gurgenidze, T. V. 209
Gürler, A. 519
Gurney, W. S. C. 669
Guseva, A. A. 355, 2579
Gutiérrez Galindo, J. 34 Guseva, A. A. 355, 2579 Gutiérrez Galindo, J. 3419 Gutierrez, J. 3061 Gutiérrez, M. Ortega Gutiérrez, M. Ortega 325 Gutiérrez Quiroz, M. 352 Gutierrez V., E. 2629 Gutkoŭskī, I. A. 841 Gutova, V. P. 2733 Guttikar, S. N. 3275, 3276 Haarlov, N. 922 Haarløy, N. 3400 Haas, G. E. 1187, 2303, 2330, 2584 Haariby, N. 3400
Haas, G. E. 1187, 2303, 2330, 2584
Habayeb, S. 2537
Haberkorn, A. 2624
Habermann, E. 2458
Habibulla, M. 552
Habowsky, J. E. J. 804
Hack, W. H. 400
Hacker, C. S. 369, 2035
Hackett, E. 1176
Hackman, W. 2344
Hadani, A. 290
Hadi, T. R. 1961, 1963, 2810
Hafez, M. 477, 2753, 2754, 2756, 3414
Haggart, D. A. 976
Hago, B. E. D. 3418
Haigh, A. J. B. 2737
Hair, J. A. 1936, 2222, 2223
Haitlinger, R. 323, 729
Hajjar, N. P. 206
Hájková, J. 1648
Hale, R. 1964
Hales, J. R. S. 3073
Hall, C. A. 175, 2174
Hall, D. W. 1232, 2077
Hall, I. M. 1998
Hall, M. J. R. 678
Hall, T. A. 2175
Hallas, T. E. 287, 1417
Hallmon, C. F. 371
Halstead, S. B. 390, 1220
Hamnn, M. van 282
Hamann, H. J. 1093, 2681
Hamel, H. 1320
Hammann, I. 1014

Hammen, L. van der 1957 Hammock, B. D. 2795 Hammouda, N. A. 2776 Hanaoka, K. 1734 Handa, S. M. 3020 Handel, E. van 91 Hanfman, D. T. 1118, 1119, 1120, 1121, 3147, 3148 Hanna, G. D. 2121 Hannoun, C. 1946, 3392 Hanschke, R. 1682 Hansen, B. L. 2704 Hansen, G. H. 268 Hansen, G. N. 2704 Hansen, G. N. 2704 Hansen, G. N. 3208 Hansen, G. N. 2704 Hansen, J. A. 3208 Hanski, I. 228, 490, 1383, 1928, 3050, 3364 Haq, N. 3259 Harbov, D. D. 250, 262 Hardie, R. 3041 Hardy, J. L. 122, 615, 1784, 2082, 2131, 2626, 3258 Hardy, R. J. 533, 1720 Hargrove, J. W. 152, 1882, 1883, 1885 Haridass, E. T. 2021, 3168 Haridass, E. T. 2021, 3168 Harkrider, J. R. 448 Harlan, H. J. 2550 Harley, J. M. B. 1316 Harlos, J. A. 622 Harlos, J. A. 622 Harca Arteaga, I. de 352 Harrap, K. A. 525 Harrell, L. 3253 Harris, J. R. W. 641 Harris, R. A. 2749 Harris, R. L. 2425 Harrison, B. A. 620, 2070, 2904 2904 Harrison, N. 2983 Harrison, R. J. 551, 2881, 3290 3290 Hart, R. A. 3204 Hart, R. J. 169, 1944 Hartberg, W. K. 447 Hartley, G. S. 2503 Hartman, M. J. 386, Hartmann, S. 498 386, 1233

Harvey, J., Jr. 2260
Harvey, T. L. 2422
Hasegawa, T. 1379
Hashiguchi, Y. 1584
Haskins, T. 2396
Hassan, A. O. 2445
Hassan, Z. A. 634
Hassell, M. P. 2282, 3146
Hastriter, M. W. 1185
Hati, A. K. 1845
Haufe, W. O. 1270, 1271, 1280, 1282, 1283, 1292
Haupt, W. 802
Hausen, K. 1621
Havelka, P. 1235
Hawaiian Sugar Planters' Hawaiian Sugar Planters'
Association 1802
Hawley, M. K. 1221
Hayakawa, H. 1373, 3022
Hayakawa, T. 1418
Hayaoka, T. 1606
Hayes, C. G. 3233
Hayes, D. K. 2829
Hayes, J. 1767
Hayes, S. F. 2741
Hayles, L. B. 104
Hazan, A. 3017
Hazelrigg, J. E. 2113
Heaps, J. W. 1821
Heath, A. B. 696
Heath, A. C. G. 1409, 2473
Hébrard, G. 145, 2676, 2677, 2975 Hawaiian Sugar Planters' 2975 2975

Hecker, H. 1527

Heckmann, R. 48

Hedemann, R. 2448

Hedman, B. KolmodinPeliemert, C. van 754

Heikkenen, H. J. 1151

Heimbucher, J. 687

Heineman, S. J. 109

Heinemann, S. J. 614

Heinz, D. J. 1802

Heitz, J. R. 191, 2367, 3355

Heleenal, G. A. 2351

Helle, T. 3007 Hellenthal, R. A. 31, 1171, 1492, 2849, 2854, 3164 Helman, R. A. 668 Helson, B. V. 1822, 2060, 2064, 2614 2064, 2614 Hembree, S. C. 376, 1819, 2042, 2400, 2976, 2977 Heme, G. 1244, 1411, 2038 Henderson, C. C. 1341 Hendrix, C. M. 600 Hennig, W. 1374, 2511 Henrick, C. A. 1442 Henry, J. E. 3136 Hentschel Ariza, E. 1458 Henty, J. E. 3130 Hentschel Ariza, E. 1458 Hentschel, H. 187, 469 Herald, F. 1810, 2430 Herath, P. R. J. 2051, 2382 Herbert, I. 2472 Herbert, I. V. 3086 Hernández Contreras, N. 3432 Herbert, I. 2472
Herbert, I. V. 3086
Hernández Contreras, N. 3432
Hernández, N. Lorenzo
Hernández, S. 1117
Herreid, C. F., II 2556
Herrer, A. 2150
Herrin, C. S. 3422
Hertlein, B. C. 586, 1553
Hervé, J. P. 1411, 2066, 3295
Hervy, J. P. 1708, 1714, 2361
Hester, P. 3352
Hewitt, G. M. 1995
Hewlett, M. J. 1839
Heyneman, D. 1254, 1255
Hiepe, T. 2191, 2691
Higashi, S. 1734
Higashino, T. 186, 685
Higgins, M. L. 2098
Highley, E. 1454
Highton, R. B. 97, 1551
Hightower, B. G. 456
Hii, J. L. K. 2055
Hill, E. G. 2509
Hill, E. G. 2509
Hill, E. G. 2509
Hill, E. 739
Hillen, N. 650
Hillier, M. 2983
Hillier, M. 2983
Hillier, M. 2983
Hilwig, I. 1997, 3287
Himel, C. M. 2273
Hink, W. F. 112
Hinton, H. E. 2280
Hirashama, A. 1450
Hirgoudar, L. S. 1401
Hirumi, H. 1467
Hiscox, K. J. 2094
Hitchcock, J. C. 1236
Hitchen, J. M. 3291
Ho, T. M. 1800
Hoare, C. A. 3396 Hitchcock, J. C. 1236
Hitchcock, J. M. 3291
Ho, T. M. 1800
Hoare, C. A. 3396
Hoban, B. 2901
Hobson, K. 25
Hoch, A. L. 2657, 2658
Hockin, D. C. 776
Hodge, R. H., Jr. 915
Hodge, S. J. 1670
Hodgson, E. 206, 2379
Hoebeke, E. R. 3387
Hoedojo, F. P. 1777
Hoellinger, H. 1452
Hoff, R. 3167
Hoffman, D. R. 1930, 2459
Hoffman, J. D. 1999
Hoffmann, G. 965
Hoffmann, J. A. 2180
Hofmann, H. C. 2169
Hogan, B. F. 2431
Hogmire, H. 2273
Holland, G. P. 2310
Hollander, A. L. 1899, 3015
Hollands Barca, I. 738
Hollerbach, P. 780
Hollings, N. 1984 Hollands Barca, I. 738 Hollerbach, P. 780 Hollings, N. 1984 Hollis, D. 538 Holman, G. M. 2418 Holman, P. J. 2226, 3412 Holscher, K. H. 604 Holterman, M. 2630 Holzhacker, E. L. 1160 Hong, T. L. 2816, 2817 Hongsbanich, L. 2814

Honzáková, E. 238, 239, 924, 1646 Hood, D. E. 4, 864 Hood, M. W. 1118, 1119, 1120, 1121, 3147, 3148 Hoogstraal, H. 241, 275, 968, 1254, 1255, 1949, 2135, 2316, 2750, 3060, 3087, 2316, 2750, 3060, 3087, 3137

Hooper, G. R. 378
Hopkins, D. 2302
Hopkins, D. E. 30, 671
Hopkins, P. S. 181
Hopkins, T. L. 2892, 3260
Hopla, C. E. 2313, 2322
Horak, I. G. 1341, 1888
Hori, K. 3369
Horin, A. Ben- 1981
Horiuchi, Y. 1418
Horn, D. H. S. 889
Horn, E. 1620
Hornby, J. 586, 1553
Horner, N. V. 1753
Horner, N. V. 1753
Horning, D. S. 1494
Horváth, E. 2458
Hoshino, C. 2683
Hosie, G. 2341
Hossack, K. 397
Houk, E. J. 122, 2131, 2626, 3258 3137 3258 House, C. R. 333, 2477 Houseman, J. G. 810 Houten, A. ten 1554, 1555, 1556 Howard, D. F. 918 Howard, G. W. 1338 Howard, J. J. 1528, 3246 Howells, A. J. 192, 911, 1382, 2195 Howitt, A. J. 2273 Howitt, R. E. 574, 1801 Hoyos, P. M. de 432, 638, 2156 2195 Hoyos, P. M. de 432, 638, 2156

Hsiao, C. 232

Hsiao, T. H. 232

Hsieh, P. C. 2580, 2864

Hsiung, K. H. 421

Hsu, K. C. 2223

Hsu, P. K. 297, 298, 299

Hsu, Y. P. 2349

Hsue, W. C. 214, 216, 1618

Hu, G. 570

Hu, Y. D. 421

Huang, C. A. 973

Huang, H. T. 1534

Huang, W. C. 2032

Huang, Y. M. 575, 1236

Huang, Y. M. 1335

Hudson, K. M. 1335

Hudson, R. Dyson-751

Hue, B. 2559

Hue, S. H. 1958

Huebner, E. 814, 1183, 1499, 2023, 2024, 2862

Hueli, L. E. 244

Huff, R. K. 1439

Huggins, C. G. 2499

Hughes, P. B. 168

Hughes, R. D. 1353, 3034

Hulebak, K. L. 746

Hull, P. R. 485 Hughes, R. D. 1353, 3034
Hulebak, K. L. 746
Hull, P. R. 485
Hull, W. B. 2269
Hummon, W. D. 384
Humphrey, J. D. 663
Humphreys, W. F. 1337
Hunt, L. M. 441, 974
Hunt, R. H. 1545
Huong, A. Y. 2151
Hůřka, K. 3011
Hurkat, P. C. 1633
Hurlbert, J. 1737
Hurlbert, J. 1737
Hurlbert, M. 796
Hurst, J. M. 230
Hussaini, S. A. M. 528
Hussein, M. F. 2757
Hutchinson, D. B. A. 229 Hutchinson, D. B. A. 229 Hutchinson, E. 2920 Hutchinson, L. 234 Huxsoll, D. L. 725, 1412, 1973 Huybrechts, R. 2701, 3360

Huyton, P. M. 648, 649, 762, 2679 Hwang, Y. S. 1209, 2106, 2107, 2263 Hyatt, K. H. 1960 Hyeon, S. B. 1446 Hyland, K. E. 922, 2772 Hyeon, S. B. 1446
Hyland, K. E. 922, 2772
Hyma, B. 3217
Ibarra, G. 291
Ibrahim, A. T. 1302
Ibrahim, M. K. 2497
Ibrahim, O. F. 2607
Ichinose, T. 2204, 2846
Igarashi, A. 836, 2950, 3286
Iglesia, F. A. de la 804
Iglisch, I. 780, 895
Iglish, I. 199
Ignat'ev, A. M. 3431
Ignoffo, C. M. 3250
Ikeda, J. K. 480
Ikeshoji, T. 1624
Ilchmann, G. 1480
Ilcken, E. H. 2425
Ilkal, M. A. 2697
Illésová, D. 1857
Il'yashchenko, V. I. 2767 Illéšová, D. 1857
Illyashchenko, V. I. 2767
Imbiriba, A. S. 479
Inada, Y. 3271
Inaoka, T. 3022
India, Department of
Agricultural Research and
Education 962
Indonisi, H. 2535
Injects E Magin 3308 Indonisi, H. 2535
Iniesta, F. Marin 3308
Injeyan, H. S. 1499
Inouye, S. T. 791
Insect Pathology Resource
Center 3118
Institute for Medical Research, Institute for Medical Research,
South Africa 1478
International Atomic Energy
Agency 1082, 2825
International Centre of Insect
Physiology and Ecology 1
International Livestock Centre
for Africa 3327, 3328 International Scientific Council for Trypanosomiasis
Research and Control 1297
Ioffe, I. D. 254, 717
Irrson, J. E. 533, 1720
Irish, M. 751
Irsiana, R. 2810
Irvin, A. D. 698, 2215, 3075
Irving, S. N. 211, 3238
Isaev, V. A. 130
Isaeva, N. M. 1025
Iseki, A. 1624
Ishak, R. 2655
Ishay, J. 3051
Ishay, J. S. 483
Ishida, F. 288, 983
Ishida, F. 288, 983
Ishida, N. 2907
Ishiguro, M. 891, 1904
Ishihata, G. K. 812
Ishii, A. 727, 3097
Ishii, T. 111
Ishikawa, H. 2857 for Trypanosomiasis Ishii, A. /2/, 309/
Ishii, T. 111
Ishikawa, H. 2857
Ismail, I. A. H. 96
Ismail, M. 306
Ismail, M. T. 631, 2144, 3306
Ismail, M. T. 631, 2144, 3306
Ismailov, G. D. 1051
Issi, I. V. 1890
Istock, C. A. 587, 1224
Itagaki, H. 288, 983, 1423
Itämies, J. 2957
Itard, J. 1695
Itaya, N. 1441, 2502
Ito, K. 2921
Ito, S. 2320, 3286, 3312
Ito, Y. 880
Ivanov, V. P. 305, 3431
Ivanova, G. B. 1893
Iversen, J. O. 104
Iwannek, K. H. 1093, 2681
Iwantsch, G. F. 1724
Iwarsson, K. 1656
Iwasa, M. 2419
Iwuala, M. O. E. 602, 2003, 2210
Izotov, V. K. 89 Izotov, V. K. 89

1829

Jachmann, F. 2461 Jackson, J. 1813 Jacobi, J. D. 922 Jacobson, R. S. 487 751 Jacobson, S. Jaffe, H. 2829 Jaffe, J. J. 838 Jagannath, M. S. 1401 Jagannathan, J. 2715 Jain, T. C. 3014 Jakob, W. L. 2074, 2629, 2914, 2944 James Cook University, Queensland 2836 James, P. J. 173 Jamil, Z. 2773 Jamnback, H. 1858 Jamuna 1522 Jamuna R. 2375 Janabi, B. M. Al-502 Janbakhsh, B. 2912 Jander, R. 2557 Janes, N. F. 1378, 1985 Jani, J. P. 2952 Jansen, C. G. 1205, 1206, 1795 1795 Jansen, M. 3021 Jarnagin, F. N. 2558 Jayakar, S. D. 2959 Jayakumar, A. 2494 Jayaraman, K. 1522, 2375 Jayasekera, N. 1205, 1206, Jeffery, G. M. 84 Jeffrey, I. G. 506 Jellison, W. L. 96 Jenni, L. 153 843 966 Jenni, L. 153 Jennings, F. W. 1298, 1299 Jennings, M. 138, 627, 635 Jensen, P. V. 2704 Jerrard, P. C. 486 Jeu, M. H. 865 Jewell, D. 3283 Jez, D. H. 827 Ji, S. L. 567 Jin, C. F. 421 Jin, C. F. 421 Jirón, L. F. 1344 Johansson, L. E. 1661 Johansson, L. E. 1661
John, E. O. Adekolu-1322
Johnsen, J. O. 2188
Johnson, B. K. 1641
Johnson, D. M. 1985
Johnson, G. D. 2413
Johnson, L. 2584
Johnson, L. W. 2276
Johnson, V. 2789
Johnson, W. E., Jr. 3253
Johnston, B. G. 1924
Johnston, D. E. 926
Joint FAO/IAEA Division of Joint FAO/IAEA Division of Isotope and Radiation Applications of Atomic Energy for Food and Agricultural Development 2825 2825 Jones, A. L. 180 Jones, C. D. 2270 Jones, C. J. 417 Jones, E. R. Verrier- 1975 Jones, G. S. 720 Jones, M. D. R. 1823 Jones, R. H. 2384, 2388, 3282, 3301
Jones, T. W. 875
Jones, W. P. Beresford- 2872
Jongejan, F. 699, 2225
Jordaan, J. O. 939
Jordan, R. G. 1192, 1544
Jordan, T. W. 546
Jorgensen, C. D. 3422
Joseph, M. Ben- 1402
Joshi, A. G. 2794
Joshi, G. C. 608, 1263, 3018
Joshi, G. P. 1562, 1633, 2371
Joshi, M. V. 3090
Joslyn, D. J. 450, 3370
Jourdheuil, P. 1715
Jouvenaz, D. P. 1627, 3388
Judd, G. J. R. 2618
Juliá, J. Z. 522, 3301 Juliá, J. Z. 522, 2781 Juliano, S. A. 3373

Jullien, J. L. 93, 1710, 1711, 2886, 3266, 3296, 3297, 3298 Jupp, P. G. 84, 2139 Jurberg, J. 2019, 2574 Jusatz, H. J. 233 Justines, G. 2629 Kaay, H. J. van der 2865 Kaay, H. J. van der 2865 Kabasawa, Y. 727 Kabayo, J. 2682 Kabayo, J. P. 148, 3319 Kabilov, T. K. 1891 Kadarsan, S. 925, 2802, 2807 Kadatskaya, K. P. 969, 970 Kaddu, J. B. 1114 Kadosawa, T. 1624 Kadous, A. A. 1736 Kadyrova, M. K. 445, 1070, 3336 3336 3336
Kadysheva, A. M. 1033
Kaida, K. 3271
Kaiser, P. E. 846, 1815, 3243
Kakuliya, G. A. 209
Kalinke, U. 2191
Kalkan, A. 3410
Kallapur, V. L. 3028
Kalmykova, D. S. 1074
Kalra, N. L. 2058 Kalmykova, D. S. 1074
Kalra, N. L. 2058
Kamal, K. A. 2757
Kamel, O. M. 2292
Kamel, O. M. 2292
Kammah, K. M. El- 718
Kamolov, V. I. 2973
Kämpe, U. 3322
Kamzaev, S. R. 3349
Kanda, T. 2921
Kang, S. H. 1761, 2598
Kang, S. Y. 1958, 2763
Kano, R. 662
Kanouijia, K. H. 101
Kapanadze, E. I. 2572 718 Kapanadze, E. I. 2572 Karaki, T. 2908 Kardake, J. T. 3231, 3234, 3235 Karimi, Y. 364 Kariya, A. 1446 Karoji, Y. 2907, 2908 Karrar, A. E. 1520 Kariya, A. 1446
Karoji, Y. 2907, 2908
Karrar, A. E. 1520
Karstad, L. 13
Kashaeva, G. V. 1758
Kashyap, S. K. 2952
Kasiev, S. K. 1033
Kasimov, A. A. 850
Kasymov, Ya. M. 3307
Katabazi, B. K. 1328
Katondo, K. M. 1318
Katsuda, Y. 1437
Katsura, Y. 891, 1904
Katsuyama, N. 1446
Kaufman, W. 2740
Kaufman, W. R. 2749
Kaufman, D. L. 2304
Kaul, S. M. 1261, 1262, 1263, 1266, 1267, 2057
Kaur, P. 3020
Kaur, S. 3020
Kaveh, H. Spitalier- 59
Kawamoto, F. 22
Kay, A. B. 1596, 2192
Kay, B. H. 1772, 1840
Kaya, H. K. 3025
Kearnan, J. F. 258, 259, 260
Kearse, T. S. 834
Keating, M. I. 1010
Kebe, B. 1300, 1301
Keil, B. 877, 1593
Keirans, J. E. 275
Kelada, N. L. 1754
Kelleher, J. S. 782
Kellogg, F. E. 2001
Kelly, J. F. 2891
Kelly, T. J. 1542, 2598
Kelly, V. P. 349
Kelson, R. V. 2385
Kemp, D. H. 953, 2471, 3073
Kemp, G. E. 1749, 2219
Kendrick, R. Killick- 133, 134, 636, 2149
Kennedy, A. J. 556 134, 636, 2149 Kennedy, A. J. 556

Kennedy, L. M. 1613 Kennedy, S. I. T. 2376 Kenya Agricultural Research Kenya Agricultural Reseat Institute 1722 Kerdpibule, V. 2945 Kern, A. Spiro- 2075 Kerr, R. W. 2435 Kesavan, P. C. 188, 903 Ketel, D. H. 754 Kettle, D. S. 863 Kevan, D. K. McE. 792 Key, G. F. 3113 Keyel, R. E. 2460 Keymer, A. E. 1391 Khaidarov, K. M. 955 Khaĭretdinov, D. G. 175 Keymer, A. E. 1391
Khaidarov, K. M. 955
Khaĭretdinov, D. G. 1758
Khairy, A. E. M. 562
Khalifa, R. 2475
Khalil, A. 761
Khalil, G. M. 968, 1397, 2135
Khaliulin, G. L. 1038
Khan, A. M. 1562, 2301, 2371
Khan, A. Q. 1562, 2371
Khan, A. R. 334, 1739
Khan, F. U. 573
Khan, K. A. 2301
Khan, M. A. 1289, 3329
Khan, M. A. 1289, 3329
Khan, M. A. 1956
Khan, M. H. 2746
Khan, Q. U. 100
Khanra, A. S. 1986
Khanum, Z. 3165
Khelladi, A. 1654
Khipe, T. 2691
Khitsova, L. N. 2973
Khodykina, Z. S. 1060, 1061
Khoury, C. 3062, 3063
Khromova, L. A. 883
Khuddus, C. A. 923
Khudyakov, I. S. 491
Khurad, A. M. 898
Kickert, L. 1009
Kieffer, M. 363, 1417
Kien, T. 3193
Killick-Kendrick, R. 133, 134, 636, 2149 Killick-Kendrick, R. 133, 134, 636, 2149 Kilochitskii, P. Ya. 402, 1025, 2590 Kilonzo, B. S. 2030 Kimsey, R. B. 2083 Kimsey, R. B. 2083 Kimura, R. 1167, 2540, 3152 Kind, L. S. 295 King, C. C. 835 King, E. G. 1999 King, M. 835 King, R. C. 2328 King, R. E. 1496 King, S. D. 845 King, T. P. 3381 King, Jr. P. 3381 Kingsolver, J. G. 587 Kinnear, J. F. 889 Kinney, R. M. 1749 Kinoshita, Y. 2265 Kirby, M. D. 1118, 1119, 1120, 1121, 3147, 3148 Kirkwood, A. C. 3101 Kirschefeld, K. 1912 Kirschfeld, K. 3041 Kirschefeld, K. 1912 Kirschfeld, K. 3041 Kirsten, D. 3420 Kirtaniya, S. Deb- 2792 Kiskin, A. B. 1218, 1982 Kismalı, Ş. 3150 Kitzmiller, J. B. 2068 Kiyasov, A. Ya. 853 Kiyooka, F. 2508 Klare, G. 3154 Klein, J. M. 1637, 2211, 2758, 3060 Kleinian, J. E. 1238 Kleinjan, J. E. 1238 Klemperer, H. G. 2207 Klevtsov, E. D. 1718 Kline, D. L. 1842 Klisenko, G. A. 3307 Kloft, E. S. 1091 Kloft, W. J. 1091 Klompen, J. S. H. 2236 Kloter, K. O. 704 Klowden, M. J. 2137 Knapp, E. W. 2441 Knapp, F. W. 252, 710, 1810, 2430, 2829 Knell, J. 3342 Kniepart, F. W. 1358 Kleinjan, J. E. 1238 Kniepart, F. W. 1358

Knight, A. L. Knight, D. B. 749 Knight, F. B. 1151 Knight, J. W. 2609 Knight, M. M. 2214 Knight, M. M. 2214 Knott, S. G. 258, 259, 260 Knowles, G. 610 Knudsen, A. B. 1194, 1245, 2918, 2919 Knülle, W. 926, 1969 Koblet, H. 113, 114 Kocan, K. M. 2222, 2223 Koch, H. G. 2464, 2465, 2467, 2738 Koch, R. B. 879 Kochetova, G. A. 2732 Kocianová, E. 933, 2232 Kodkind, G. Kh. 1036 Koeman, J. H. 876, 2157, 3323 Koenig, E. Levy- 3149 Koeppe, J. K. 24, 25, 1732, 2558 Koesharjono, C. 2802 Kotsharjono, C. 2002 Kohn, G. K. 1442, 1455 Kok, L. P. 2921 Kokorin, I. N. 3070 Kokwaro, E. D. 651, 3001, 3076 3076 Kolebinova, M. 1977 Kolebinova, M. G. 1660, 1664, 2490 Kolmodin-Hedman, B. 292 Kolomatskaya, L. P. 1074 Kolonin, G. V. 501, 2734, Koltai, L. 878 Kombila, M. 861 Kong, D. F. 1526 Kong, D. F. 1526 Konigsmann, E. 1177 Konkina, N. S. 1380 Kononko, A. G. 105 Konovalov, C. 2202 Konovalov, C. A. 2435 Konstantinović, S. 3111 Koolman, J. 753 Kopeyan, C. 742 Korenberg, E. I. 493 Korenberg, E. N. 977 Korneva, L. A. 1027 Kornieva, L. A. 1027 Kornikov, V. V. 1339 Koroleva, E. V. 993 Korotkov, Yu. S. 716, 1035, 1036 Korsgaard, J. 280, 287, 1956 Kort, C. A. D. de 3134 Kort, P. 734 Korvenkontio, M. Brummer-702 Korzh, K. P. 1073, 1074 Korzhov, V. M. 402 Koshy, T. 2374, 3294 Koshy, T. J. 715 Koshy, T. K. 1500, 1501, Kosminskii, R. B. 355, 2579 Kothes, Y. Dutschewska- 11 Kotlyar, Yu. V. 1718 Kotogyan, A. 519 Koul, O. 1755 Kotogyan, A. 519
Koul, O. 1755
Kováčová, E. 924, 3399
Kovács, G. 1436
Koval, E. Z. 2031
Kovalenko, L. G. 1759
Kovalenko, L. G. 1759
Kovalenko, J. J. 2287
Kozak, J. J. 2287
Kozak, P. P., Jr. 2459
Kozánek, M. 189, 2065
Kozlov, D. P. 686
Kozlov, D. P. 686
Kozlov, M. P. 1186, 2868
Kozub, G. C. 666, 1283, 3329
Krafsur, E. S. 456
Kramer, E. 789
Kramer, J. P. 3031
Kramer, L. D. 1784, 2626
Kramer, R. D. 2550
Kramer, W. L. 1209, 2118
Krampitz, H. E. 2331, 2333
Krasantsev, I. I. 1073
Krasnobrizhii, N. Ya. 1759 Krasnobrizhiĭ, N. Ya. Krauthamer, V. 3156 Krebs, C. J. 1340

Kreier, J. P. 242
Kremer, M. 127, 160, 414,
631, 1251, 1574, 2144, 3193,
3299, 3304, 3306
Kreutzer, R. D. 2923
Krieg, A. 1249, 1250
Kriegel, M. 2144, 3306
Kriger, F. L. 3175
Krinsky, W. L. 248, 2025
Krishna Murthy, P. 102
Kristensen, S. 363, 1417
Krištofik, J. 190 Krinsky, W. L. 248, 2025
Krishna Murthy, P. 102
Kristensen, S. 363, 1417
Krištofik, J. 190
Kriuchechnikov, V. N. 318
Krivosheina, G. G. 3163
Krogsgaard-Larsen, P. 2842
Kroha, M. J. 3250
Kroop, S. 751
Krüger, H. 335
Kruger, R. M. 1789
Krylova, V. N. 1048
Krywienczyk, J. 597, 2501
Krzemińska, A. 473
Ksiazek, T. G. 83, 3221
Kühlhorn, F. 3189
Kuhlow, F. 1795
Kuhn, H. G. 2214
Kuima, A. U. 1072
Kuldip Singh 3018
Kulkarni, S. M. 3090
Kul'kova, T. A. 2573, 2777
Kultzer, H. 2401
Kulzer, H. 1875
Kumada, N. 22
Kumada, N. 22 Kultzer, H. 2401
Kulzer, H. 1875
Kumada, N. 22
Kumar, K. 1264, 1265
Kumar, R. 2782, 3210
Kumari, K. V. 2784
Kummel, B. A. 1980
Künast, C. 1356, 1360
Künichkin, G. I. 3349
Kunkel, J. G. 2007
Kunokawa, K. 2050
Kunyiha, R. W. 2998
Kunz, S. E. 2424, 3010
Kunz, T. H. 2582
Kurahashi, H. 662, 2420, 3339
Kurakochi, K. 1913
Kurczewski, F. E. 1923
Kurenkov, V. B. 716, 2732
Kurihara, T. 2906, 2909, 2934, 3225 3225 Kuriyama, K. 790 Kuroda, A. 2908 Kurtii, T. J. 1469 Kusharyono, C. 565, 817, 1190 Kushnarev, E. L. 2734 Kusov, V. N. 1038 Kusova, Z. L. 571, 1518 Kuster, J. E. 2858, 2859 Kusui, Y. 3382 Kutsenogii, K. P. 1218, 1982 Kutsenogii, K. P. 1218, 1982 Kutzer, E. 687, 3316 Kuusela, S. 3364 Kuwahara, Y. 1652, 3424, Kuwahara, Y. 1652, 3424, 3425
Kuwahara, Y. 1652, 3424, 3425
Kuwano, E. 2261
Kuzina, O. S. 1610
Kuznetsov, A. V. 1037
Kuznetsov, N. V. 1073
Kuzoe, F. A. S. 150
Kuzovkin, E. M. 1074
Kuzybaeva, Kh. K. 1071
Kyaw, M. 1247
La Manna, A. 991
La Salandra, M. 764
Labovitz, J. N. 1442
LaBrecque, G. C. 1090
Labuda, M. 2065, 3087
Lacasa Millán, M. I. 3419
LaCasse, W. J. 2073
Lacey, L. A. 1269
Lacey, L. R. 2664
Lachet, B. 2743
Lackie, A. M. 2561
Lacombe, D. 2017
Ladera, I. 3188
Ladera, I. N. 2819
Laguna, A. Fergusson- 2644
Lagunes, A. 2110
Lainson, R. 1256, 2299 3425

Laird, M. 429, 1325, 2031, 2258, 2660 Laitinen, M. 3008 Lake, D. J. 2416 Lalayan, A. A. 1718 Lalitha, C. M. 715 Laltoo, H. 295 Laltoo, H. 295
Lamatová, Z. 3230
Lamb, M. J. 219
Lamb, R. J. 2044
Lambert, M. 2052
Lambrecht, F. L. 1867, 3006
Lamont, L. C. 875
Lampe, R. M. 268
Lamy, J. 2779
Lan, M. Y. 1954
Lancaster, J. L., Jr. 2433
Lanciani, C. A. 2046
Lancien, J. 1310
Land, M. F. 778
Landau, I. 57
Landegren, J. 1673 Landegren, J. 1673 Landureau, J. C. Landureau, J. C. 1731 Lane, D. D. 314 Lane, N. J. 1159, 3407 Lane, R. P. 3305 Lane, R. S. 2444 Langley, P. A. 148, 648, 649, 762, 1094, 2405, 2679, 2682, 3319 3319 Lankhuijzen, D. 780 Lanotte, G. 132, 133, 636, 2148 Lanzaro, G. C. 3251 Laone, P. 1498 Lapchin, L. 426 Lapitskiï, V. P. 2845 Larios, F. 2221 Larsen, P. Krogsgaard-2842 Larsson, R. 2653 Lassoued, M. 2256 Lassoued, M. 2256 Láu, H. D. 2250 Laudani, U. 71 Lauer, D. M. 3066 Lauga, J. 2607, 2717 Laumond, C. 58 Launay, H. 2233, 3183 Laurence, B. R. 68 Lause, S. 1785 Lavchiev, V. I. 901 Laveissière, C. 435, 1095, 1695, 1695, 1697, 1698, 2982, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 3002, 3320 3002, 3320 Laveran, A. 3193 Lavin, D. R. 2866 Lavin, M. Camino 1124, 1129, 1459, 1461 Lavoipierre, M. M. J. 510, 2083 2083 Lawrence, J. A. 942 Lawton, J. H. 2282, 3146 Lazell, M. 1634 Lazuick, J. S. 1749, 2219, 2629, 2949 Lazuick, J. S. 1/49, 2219, 2629, 2949

Le Berre, R. 1702

Le Fichoux, Y. 1967

Le Gonidec, G. 1244

Le Guelte, L. 3116

Le Pannerer, X. 223

Le Pont, F. 139, 2969

Lea, A. O. 408, 2137

Leahy, M. G. 273, 1393, 1648

Leake, C. J. 1468, 1825

Leaney, A. J. 133, 134

Leake, C. J. 130, 134

Leao, A. E. A. 2660

Lebedeva, N. N. 1039

Lebedinets, N. N. 3192

Lebel, R. R. 927

Lebrun, P. 1797

LeCato, G. L. 3384

Leclerc, M. 2779

Leclercq, M. 17, 451, 1349, 2417, 3368

Lecroisey, A. 877, 1593 2417, 3368 Lecroisey, A. 877, 1593 Ledger, J. 775 Ledger, J. A. 1177 LeDuc, J. W. 2655 Ledvinka, J. 1639 Lee, C. W. 2401 Lee, D. K. 1728

Lee, T. K. 2122 Lee, V. L. 1776 Leegwater-van der Linden, M. E. 1102, 2984 Leger, A. S. St. 1975 Léger, N. 422, 2389, 2390, 3198, 3199, 3200 Legner, E. F. 415, 670, 1543, 1911, 2095, 2345 1911, 2095, 2345 Legros, F. 1943 Lehman, P. G. 170 Lehnert, T. 3052 Leibold, C. M. 3371 Leigh, C. H. 2130 Leippe, M. M. 1442 Leitch, B. L. 276, 709, 3075, 3089 Leite, C. A. P. 2575 Lekhavat, T. 724 Lello, E. de 1588, 1589, 3334 Lemesheva, L. B. 3413 Lemiere, A. 482 Lenire, A. 482 Lenich, R. 3420 Lennep, M. van 1178 LeNoble, D. Richard- 861 Lent, H. 2574 León Corona, J. de 1128 Leonhard, S. L. 1279 Leonovich, S. A. 707, 2744, 3409 Lepes, T. 3194 Leppla, N. C. 1999 Leprince, D. J. 2354, 2881, 3290 3290
Lesser, F. H. 3207
Leutskaya, V. F. 2541
Levchenko, N. G. 1020
Levenbook, L. 1400, 1916
Leveque, C. 1691
Levi, M. I. 2541
Levin, N. A. 1748
Levine, N. D. 1215
Levy-Koenig, E. 3149
Levy, R. 373, 586, 1553, 3352
Lewandowski, H. B., Jr. 378
Lewis, D. 277, 946, 1396, Lewis, D. 277, 946, 1396, 1948, 2472 Lewis, D. H. 2829 Lewis, D. H. 2829 Lewis, L. C. 197 Lewis, N. J. 749 Lewis, R. E. 3186 Lewis, R. E. 3186 Lewis, V. R. 1737 Lezzerini, C. 3063 Li, B. S. 1765, 2605 Li, G. Z. 2580 Li, K. C. 568, 570, 818, 2580, 3180 Li, P. V. 1054 Li, P. X. 1954 Lian, C. G. 2921 Liao, H. R. 2231, 2245, 3180 Liat, L. B. 565, 1190, 1963, 2821, 3188 Liat, Lim Boo 817, 2821 Liat, Lim Boo 811, 2821 Liaw Choon Fah 598 Licastro, S. A. de 1745 Licastro, S. de 35 Lie, K. J. 1774 Liebisch, A. 956 Lien, J. C. 847, 2031, 2032, 2340 2349 Lien, S. M. 1215 Lim, B. L. 725, 1973 Lim Boo Liat 817, 2821 Lim Boo Liat 817, 2821 Lim, G. S. 1350 Lim, P. K. C. 2885 Lim, T. W. 1245 Lima, C. P. F. de 1107 Lima Cerqueira, E. J. 3185 Lin, Z. H. 2231, 2245 Linardi, P. M. 1751, 3185 Lincoln, D. T. 2471, 3072 Lind, P. 1956, 3107 Lindauer, E. 2177 Linde, T. C. de K. van der 2364 2364 Linden, M. E. Leegwater-van der 1102, 2984 Lindroth, G. Brinck- 2340 Linley, J. R. 2963, 2964 Linnavuori, R. E. 2016 Linnemann, C. C., Jr. 234

Linskens, H. F. 3094 Lipke, H. 2047 Lipson, M. 172 Liscia, A. 1370, 1614 Lisitza, M. A. 2935 Lissman, B. A. 278 Little, I. W. 1146 Littlejohn, A. 941 Litvoc, J. 3172 Liu, C. 361, 819, 2864 Liu, C. Y. 361, 1188 Liu, G. Z. 1954 Liu, J. C. 1559 Liu, L. C. 2864 Liu, P. Z. 868 Liu, W. D. 2604 Livdahl, T. P. 1242 Liz, A. Carrillo 1126 Ljaljević, J. 3110 Ljaljević, M. 3110 Llanos Z., B. 1256 Llera, J. L. Guillen 243 Llewellyn, C. H. 2656, 2 Little, I. W. 1146 Llera, J. L. Guillen 243 Llewellyn, C. H. 2656, 2657 Lloyd, J. E. 2524, 2525, 3210 Lobachev, V. S. 1996 Locke, M. 1725 Lockey, R. F. 2455 Lockhart, W. L. 1284, 1285, 2980
Lococo, D. 814, 2024
Loeb Cruden, D. 29
Lofgren, C. F. 2829
Lofgren, C. S. 482, 1388, 1816, 2725, 3058, 3388
Logan, K. B. 2639
Loiselle, R. 2881, 3290
Lok, J. B. 1852, 2981
Lomas, J. García de 3308
Lonc, E. 488
London School of Hygiene and Tropical Medicine 2381, 2616, 2633
London, W. T. 1511
Longenecker, G. L. 2499, 3114 2980 3114 Longenecker, H. E., Jr. 2499, 3114
Loof, A. de 2173, 2701, 3360
Loomis, E. C. 1953, 2442
Loomis, R. B. 982, 1966
Loots, G. C. 929
Lopes, J. 1908
Lopes, O. de S. 2949
López, A. Valero 3117
López, G. 236
Lopez, G. A. 3237
López V., G. 2218, 2466
Lord, J. 1366, 3024
Lord, J. C. 2077
Lorenzo Hernández, N. 849 3114 Lorenzo Hernández, N. 849
Lorimer, N. 2365
Loskutov, O. A. 3330
Losson, B. 1413
Louis, J. 2252, 2253, 2254
Lounibos, L. P. 54, 2876
Loupen, J. M. W. 736
Lourenço, W. R. 744, 2496
Lourens, J. H. M. 699, 703
Lovász-Gáspár, M. 1436
Love, C. L. 906, 907
Lovell, J. B. 759
Lowe, R. E. 846, 1815, 1816, 2125, 3236, 3243
Lowenstein, H. 1956
Lowrie, D. C. 2785
Lucca, F. L. de 2857
Luciano, V. S. di 3177
Lucientes-Curdi, J. 3419 Lorenzo Hernández, N. 849 Luciano, V. S. di 311/ Lucientes-Curdi, J. 3419 Luckins, A. G. 1870, 2162 Luh, P. L. 1765, 2605 Luisi, A. M. 989, 990 Lukiyanchikov, V. P. 56 Lukoschus, F. S. 301, 735, 736, 1001, 1002, 1004, 2236, 2483 2483 2483 Luk'yanchuk, M. P. 1760 Luk'yanova, I. V. 1052 Lumaret, J. P. 919, 2208 Lumb, R. H. 3027 Lumiaho, I. 2957 Lumsden, W. H. R. 952 Luna Dias, A. P. A. 1580, 2399

440 Luna, L. L. 415 Lundquist, A. 462 Lundqvist, L. 921 Lüthy, P. 1570 Lutz, D. A. 2023 Luz, E. 1202, 1203, 1204 Luz, E. 1202, 1203, 1204 L'vchiev, V. I. 901, 902 L'vov, D. K. 251 Lyal, C. H. C. 2527 McAlpine, J. F. 2587 McCabe, T. L. 2276 McCarthy, R. A. 2007 McClusky, D. K. 2385 McColl, H. P. 1409 McDaniel, B. 511, 629 McDonald, F. J. D. 1609 McDonald, F. J. D. 1609 McDonald, G. 1214, 2632 MacDonald, J. F. 487, 2460 McDonald, P. T. 380, 2099, McDonald, P. 1. 380, 2099, 3140

MacDonald, R. S. 2064

McDonald, S. E. 510

McDonell, P. A. 2174

McDougall, K. W. 696

McE. Kevan, D. K. 792

MacFarlane, E. Nimard 1764

McFarlane, J. E. 673

McGill, T. W. 3402

McGovern, T. P. 1762, 1813

McGowan, M. J. 492, 979

McGregor, A. 3303

McGuire, E. J. 804

McGuirk, B. J. 2718

Machado-Allison, C. E. 1824, 2643, 2644

Machi, A. 989

Machi, A. M. 990

Machin, A. F. 3009

McIntosh, B. M. 84, 2139

McIntosh, L. 796

McIntyre, W. I. M. 1298, 1299 3140 1299
McIver, S. 1578
McIver, S. B. 827
McKeever, S. 447
Mackenzie-Graham, L. L. 3244 McKenzie, J. A. 2199 McKercher, D. G. 266, 267 Mackey, A. P. 1348 McLaren, I. W. 2632 McLean, R. G. 1403, 3405, 266, 267 3406 McNeill, J. C., IV 2913 McNew, R. W. 492 McQuillan, P. B. 533, 1720 Madalengoitia, J. 1828 Madalov, N. M. 1033 Madalengoitia, J. 1828 Madalov, N. M. 1033 Madan, M. S. 1007 Madder, D. J. 1742, 2064 Maddern, R. H. 1897 Maddox, J. V. 747 Maddrell, S. H. P. 809, 2279 Madrigal, R. Brenes 2138 Maeda, R. 2906, 2909, 2934, 3225 Maeda, R. 2906, 2909, 2934, 3225

Maevskii, M. P. 359

Maffi, G. 2202, 2959

Maggini, M. 768, 2570

Magnarelli, L. A. 185, 1208, 1398, 1603, 1921, 2443

Magor, J. I. 1850

Magzoub, M. 623

Mahadev, P. V. M. 3090

Mahadevan, S. 2885

Mahal, N. 334, 1739

Mahan, S. M. 2215

Mahmood, F. 395

Mahmoud, M. M. 184

Mahnert, V. 2029

Mahoney, D. F. 2832

Maier, W. A. 1198, 1199

Maiga, S. 2996

Mailhot, Y. 1818

Main, A. J. 248, 702, 704, 1408 3225 Maina, A. 1332 Mair, K. H. 465 Maire, A. 672, 1219, 1818, 2063, 2611, 2958 Majhi, S. 553

Majori, G. 768, 2570, 2937 Mak, J. W. 625, 1774, 2885, 3274 Maker, D. 2142 Maksimov, V. N. 1519 Malacrida, A. 2171 Malatesta, P. F. 2248 Malawista, S. E. 269 Malek, A. A. Abdel- 2634, 2635 Maler, G. 652 Maler, G. 652 Malevannaya, Z. A. 10 Malhotra, D. V. 3093 Malik, J. K. 750 Mališ, L. 514 1028 Mališ, L. 514
Málková, D. 1560
Maloney, F. A. 1820
Malonga, J. R. 2994
Malz, D. 783
Mamedov, V. I. 850
Mamet, J. R. 3141
Mamleev, S. R. 1718
Man, W. de 3360
Mandara, M. P. 3049
Mane, A. 1300, 1301
Mani, R. 2494
Manilla, G. 3064 Mani, R. 2494
Manilla, G. 3064
Manju Singh 655
Manna, A. la 991
Manning, D. L. 1241
Manno, A. 1329
Manoucheri, A. V. 2917
Manzanilla, P. 632
Mapp, C. 992
Maramorosch, K. 1467
March, B. G. E. de 1279, 1281 1281 1281 March, C. S. 2194 Marchand, A. 1414 Marchenko, G. P. 1041 Marchette, N. J. 1246 Marchetti, R. 2014 Marchi, A. 71, 388, 1831, 2894 Mariam, S. H., 1. Mariani, G. 769 Mariani, M. 769 1306 Mariani, G. 769
Mariani, M. 769
Mariani, M. 769
Marin Iniesta, F. 3308
Marinkelle, C. J. 3227
Markevich, A. P. 1018
Markides, A. A. 370, 3267
Markovetz, A. J. 29, 1161
Markovich, N. Ya. 2588
Marks, E. N. 106
Marks, E. P. 1453
Markus, M. B. 220
Maroli, M. 2570
Marroquin, H. Figueroa 2151
Marsden, J. S. 1924
Marsh, N. A. 1929
Marshall, I. D. 2033
Marshall, J. 2682
Martin, G. E. 1924
Martin, J. E. H. 954
Martin, J. E. H. 954
Martin, M. D. 889
Martin Mateo, M. P. 340, 2850 Martín Mateo, M. P. 340, 2850
Martin, P. 1438
Martin, W. 1168, 1920
Martindale, C. B. 1428
Martínez, F. 1117
Martinez, F. Camacho- 726
Martinez, G. 742
Martinez, V. 3436
Martínez y Tapia, D. B. 1463
Martins, U. R. 1989
Martsinkovskiř, D. T. 1041
Martynowicz, T. 2564
Marutyan, E. A. 853
Mas, J. P. 832, 1798
Masake, R. 2215
Masalkina, T. M. 2597, 2875
Maser, C. 289, 509, 966, 2249
Mashhadani, H. M. Al- 616
Mashkeř, A. N. 1074
Mashkeř, I. A. 1040, 1057, 1073, 1074
Masler, E. P. 125, 2595
Mason, G. F. 382
Mason, K. 1663
Masood, S. 731 2850

Masry, S. A. El- 562 Massingill, M. J. 2091 Masson, C. 2560
Mata, R. Zapata 1461
Matanmi, B. A. 202, 1113
Matechi, H. T. 1328
Mateo, M. P. Martín 340, 2850 Mathavan, S. 2351 Mathews, B. L. 235 Mathews, R. S. 1386 Mathis, H. L. 1555 Mathur, K. K. 1264, 1265, 3018 Matsui, M. 1988, 2508 Matsumoto, D. E. Matsumoto, K. 1652, 3424, 3425 Matsumoto, Y. 1624 Matsumura, F. 1736 Matsumura, T. 85 Matsuo, K. 1295 Matsuo, N. 2508 Matsuo, T. 1441 Matthaei, H. D. 1712, 1713 Matthews, R. W. 487 Matthiesen, F. A. 3433 Matthiesen, F. A. 3433
Mattos, S. da Silva 2049, 2072
Mattos, S. S. 1016
Matuhasi, T. 3097
Matyushina, O. A. 2734
Matz, G. 2546
Maudin, I. 1865
Maunder, J. W. 1142
Maung Maung Tun 1496, 1962, 2478, 2775
Maupin, G. O. 1403
Mauri, R. 984
Mauritius, Ministry of Agriculture and Natural Agriculture and Natural Resources and the Resources and the Environment 224
Maury, E. A. 744, 1477
Maurya, K. R. 2773
Mavros, A. J. 966
Mavyaev, K. M. 955
Maxwell, D. J. 2543, 3158
May, R. M. 2839, 3146
Mayer, R. T. 452, 656, 1901, 2418, 3030, 3032, 3367
Maynard Smith J. M. 219 Maynard Smith, J. M. 219 Mays, C. E. 1791 Mazokhin-Porshnyakov, G. A. 1376
Mazurkiewicz, M. 2564
Mead, A. P. 3229
Mead-Briggs, A. R. 2324
Mechulan, M. Romano 1764
Medellin, J. A. 1640
Medina G., P. 2218
Medler, J. T. 1157
Medved, R. A. 670
Medvedev, S. G. 3179
Meegan, J. M. 2135
Meek, C. L. 375
Meer, R. K. Vander 1388, 3058
Meshir, S. 1733 1376 3058
Meghir, S. 1733
Mehler, L. 3026
Mehlhorn, H. 272, 2624
Mehlitz, D. 3322
Mehrotra, P. 1175
Mehta, A. R. 3130
Meifert, D. W. 455
Meigen, J. W. 3315
Meillon, B. de 1248
Meisch, M. V. 376, 1193
Meixun, C. 407
Meledzhaeva, M. A. 1636 Meixun, C. 407
Meledzhaeva, M. A. 1636
Melioli, G. 989, 990
Mello, D. A. 805, 806
Mello, M. L. S. 808, 1503, 1510, 2022
Mellor, P. S. 630
Mel'nik, G. E. 1041
Mendelson, D. C. 3182
Mendes de Souza, M. C. 12
Mendes, M. F. 3157
Méndez, E. 732
Mendis, C. L. 1812
Meneses, O. 1828
Meng, Y. C. 1954
Menon, M. 3160 1259

Menon, P. K. B. 2600 Menzie, C. M. 2790 Meola, R. W. 1770 Meola, S. M. 452, 656, 2167, 3367 Meréchal, L. R. 330 Merechal, L. R. 330 Merechil, S. E. O. 3314 Merrell, C. 3212 Merrett, T. G. 1975 Merritt, G. C. 174, 193, 3039 Meshcheryakova, I. S. 496, 1380 Mestres, R. Metcalf, R. L. 3123 Metelitsa, V. K. 1591 Metelitsa, V. K. 1591 Metselaar, D. 1825 Mews, A. R. 148 Meyer, H. J. 474 Meyer, J. A. 2433 Meyer, J. L. 2120 Meyer, R. P. 2101, 2119, 2165 Meyer, S. G. E. 1359 Meyer, W. 74 Meyers, W. E. 2829 Mezenev, N. P. 391 Mezzanotte, R. 388, 1831, 2894 2894 2894 Mgongo, F. O. K. 2200 Mhalu, F. S. 3049 Michael, S. A. 365, 2756, 3374 Michels, F. B. 1964 Michelsen, V. 905 Micks, D. W. 2133, 2913 Middlekauff, W. W. 2444 Middlekauff, W. W. 2444
Mijović, M. 3109
Mikačić, D. 237
Mikhaĭlova, K. I. 261
Milan, P. P. 856
Milby, M. M. 380, 2080, 2102, 2103, 2119
Miles, S. J. 81, 2369, 2382, 3277 3277
Milka, R. 688
Millán, M. I. Lacasa 3419
Miller, J. A. 2829
Miller, J. S. 1930
Miller, L. A. 533, 1720
Miller, M. C. 1481
Miller, R. W. 454, 2428
Miller, S. 1213
Miller, T. A. 207, 211, 3131, 3143, 3144
Miller, T. W., Jr. 373, 586, 1553
Mills, A. T. 1897 Mills, A. T. 1897 Mills, T. A. E. Platts- 739, 2489, 2492 Milošević, D. 3112 Miltgen, F. 57 Milward-de-Azevedo, E. M. V. 1747 Minář, J. 1594, 1996, 3011, 3230 Minarzh, Ya. K. 2690 Ministry of Agriculture and Fisheries, Fiji 1658 Ministry of Agriculture and Natural Resources and the Environment, Mauritius Environment, Mauritius 224
Ministry of Health, Cyprus 370, 3267
Minor, A. V. 542
Minoshima, S. 1734
Miranpuri, G. S. 705
Mironov, A. N. 2578
Mironov, N. P. 1043
Mirzaeva, A. G. 2966
Miščević, Z. 137
Mishaeva, N. P. 3390
Mishra, N. K. 798
Mishra, R. K. 43
Misra, B. S. 1260, 1265
Misra, H. K. 311
Mitcham, R. P. 2713
Mitchell, C. J. 396, 1801, 3149
Mitchell, J. A. 2725
Mitchell, L. 1212
Mitra, A. C. 2620
Mitra, K. K. 2620
Mitsuhashi, J. 886
Mittag, J. 1620
Mittal, I. C. 1931 224 Mittag, J. 1620 Mittal, I. C. 1931

Mittal, O. P. 601 Mittermayer, T. 1647 Mittler, T. E. 3133 Miura, K. 186, 685, 2190, 3366
Miura, T. 2116, 2925
Miyagi, I. 1217, 2947
Miyamoto, T. 1418
Mladenov, M. 2542
Moeur, J. E. 1224
Mogi, M. 98, 99, 588, 1226
Mogollon, J. 632
Moh Seng, Chang 413
Mohamed, A. H. 2497
Mohamed, N. H. 3293
Mohammed, A. N. 521
Mohan, P. C. 3273
Mohan, P. M. 1164, 1169
Mohd-Salleh, M. B. 197 3366 Mohd-Salleh, M. B. Mohd-Salleh, M. B. 197 Mohrig, W. 1682 Mokry, J. 98 Mokry, J. E. 639, 640, 1817, 1856 Molen, J. N. van der 201 Molinar, E. 2221 Molineaux, L. 829 Molla, E. H. El- 562 Mollenhauer, H. H. 3030 Mollenhauer, H. H. 3030 Möllen, L. 780 Molloy, D. 1531, 1858, 2396, 2397 Moloo, S. K. 1877, 1878, 2164, 3002 2164, 3002
Molyneux, D. H. 150, 650, 1084, 1095, 1096, 1866, 1869, 2866, 2873, 2983
Monath, T. P. 393, 396, 1749, 2037, 2038, 2219, 2629
Moncada, E. 2743
Moncada, E. 1. 432
Mondat B. 145, 3320 Moncada, L. I. 432 Mondet, B. 145, 3320 Monroy, J. 2221 Monti, M. 566 Monzu, N. 165 Moon, H. B. 2763 Moon, R. D. 1598, 2442, 3025 Moon, W. B. 2133, 2913 Moor, B. 2198 Moore, C. V. 574, 1801 Moorhouse, D. E. 893, 2654 Moquillaza, J. 116 Mora, J. Quiles 3308 Mora, W. K. 1783 Moraes, M. A. P. 870, 1580, 2627 Morallo-Rejesus, B. 2838, Morallo-Rejesus, B. 2838, Morano-Rejesus, B. 2838, 3127

Moran, D. T. 2547

Moravčik, P. 204

Morawcsik, J. 1250

Morch, J. 922

Mordue, W. 1685

Morel, P. C. 951, 957, 958, 1701, 3403

Moreno, T. 1117

Moret, J. 2220

Moreton, R. B. 2798

Morgan, C. R. 794

Morgan, D. W. T. 2446

Morgan, H. G. 1111

Morgan, P. B. 367

Mori, A. 99, 379, 1226, 2050

Mori, A. 99, 379, 1226, 2050

Mori, K. 1988, 2683

Moribayashi, A. 1377 3127 Moribayashi, A. 1377 Morici, M. 270 Morlan, H. B. 2126 Morris, C. D. 1528, 1529, 3246 3240 Morris, R. S. 258, 259, 260 Morrison, B. 2227 Morrison, J. 1512 Morrison, P. E. 1612, 3028 Morrow, H. 1375 Morrison, P. E. 1612, 3028 Morrow, H. 1375 Morrow, R. H. 1375 Morsoni Bernardini, P. 786 Mosconi, P. Bernardini 1484 Moss, A. 751 Moss, D. M. 618 Mosse, E. 386, 1233

Mostafa, M. A. 3374 Mostaghni, K. 503 Mota, N. G. S. 1588, 1589, 3334 Motabar, M. 2912 Motara, M. A. 593 Moteyunas, L. I. 3399 Moteyunas, L. I. 3399 Motoyama, N. 1606 Mott, K. E. 3167 Motte, P. 1967 Mouchet, J. 1692, 1695, 3195 Moulds, M. S. 2518, 2519, 2520, 2521, 2522, 2523 Moulinier, C. 1798 Mount, G. A. 1937, 2467, 3059 3059 Moussa, A. Y. 1925 Moussa, M. A. 1525 Mowbray, D. L. 313 Mozheiko, L. P. 884 Mrciak, M. 930, 2244 Mtoi, R. S. 2030 Mtuya, A. G. 1089 Muhsam, B. Feldman- 300, 1402 Mujtaba, S. M. 617 Mukanov, S. M. 403, 2594, 2962 Mukerjee, S. K. 2506 Mukherjee, S. K. 2506 Mukhammadkulov, M. 3080 Mukherjee, K. K. 2620 Mukhtar, R. 3255 Mukiama, T. K. 2034 Mulhern, T. D. 3202 Mulla, M. S. 78, 1209, 2084, 2106, 2107, 2111, 2118, 2263, 2413, 2664, 2916, 3346 3346 Mullenix, J. 2074 Mullens, B. A. 661 Müller, P. 2404 Muller, R. 952 Muller, R. 952 Müller, Z. O. 2710 Mulligan, F. S., III 2088, 2925, 2939 Mumcuoglu, Y. 300, 723, 803, 820, 923, 1148, 1174, 3215, 3383 Munaf, H. B. 2802, 2807 Munakata, K. 317, 2796 Munif, A. 565, 2819 Muñiz, A. M. 1130 Muños de Hoyos, P. 638 Muñoz de Hoyos, P. 432, 2156 Muradov, Sh. M. 1521 Muraleedharan, K. 140 Murdock, L. L. 2548 1401 Muraleedharan, K. 1401 Murdock, L. L. 2548 Murlis, J. 2270 Murray, A. B. 1671, 2227 Murray, D. A. 196 Murray, E. S. 967 Murray, M. 1298, 1299 Murray, P. K. 1298, 1299 Murthy, P. Krishna 102 Musa, B. E. 3418 Mushkambarova, M. G. 44 Mushkambarova, M. G. 489 Muth, D. J. 2219, 2949, 3406 Muthukrishnan, J. 28, 2351 Mutinga, M. J. 1086, 1114, 2971, 2972 My-Yen, L. T. 3424, 3425 Myat, A. 1562, 2371 My-Yen, L. 1. 3424, 3425
Myat, A. 1562, 2371
Myrzin, A. S. 56
Nabawi, A. El- 3394
Nabokov, O. V. Viktorov1027, 1028, 1056
Nadchatram, M. 513, 730,
981, 1000, 1974, 2479, 2483,
2769, 2771, 2811
Nadgornaya, N. I. 1034
Nagel, H. G. 2043
Nagel, P. 2404
Naidu, R. C. M. 2783
Naiff, R. D. 2299
Nair, R. B. 3434
Na'isa, B. K. 1330
Najera, A. Diaz- 2398
Nakani, T. 983
Nakamura, H. 3286
Nakanishi, E. 2508
Nakanishi, K. 2554
Nakavachara, V. 620

Nalbandyan, V. P. 1718 Nalbandyan, V. P. 17 Nalim, S. 1961 Naltsas, S. 1670 Nanjyo, K. 1446 Nantulya, V. M. 153 Narang, N. 1768 Narang, S. 1768 Narasimham, M. V. V. L. 101, 3223 Narayan Rao, P. 1914 Narendran, T. C. 3056 Narmatov, Kh. A. 1604 Narmatov, Kh. A. 1604
Nassif, M. 2292
Nath, D. R. 2623
Nath, V. V. N. 2599
Nathan, M. B. 2386, 2387
Natori, S. 3363
Naumov, R. L. 2733
Navarrete, I. 1117
Nay, T. 193
Nayar, J. K. 837, 2609
Nazarova, I. V. 1042, 1675, 2571 2571 2571 Nazarova, Sh. 3347 Nazarova, Sh. N. 16 Nazmi, N. H. 3374 N'Dow, W. S. M. 1 Ndumu, J. R. 1116 Neal, R. A. 351 1617 1298, 1299 Neal, R. A. 35 Neale, E. 1975 Neale, E. 1975 Nelson, B. C. 2319 Nelson, D. R. 2277, 2706 Nelson, J. H. 2400, 2976 Nelson, M. 116 Nelson, R. L. 380, 590, 2103 Nelson, W. A. 666, 3357 Nel'zina, E. N. 1043 Nemchik, V. Fudalevich-Nemilova, T. N. 1718 Nemny, N. E. 1892 Nepoklonov, A. A. 253, 2691 Nepoklonova, M. I. 253 Neri, M. 2014 Nepoklonova, M. 1. 253 Neri, M. 2014 Neronov, V. M. 695 Nesbitt, B. F. 1716 Nessem, S. L. 478, 2720 Neste, D. van 512 Nettles, V. F. 1155 Neves, D. P. 2018 Neveu, A. 426 Neveu, A. 426 Nevill, E. M. 84 Newberry, K. 2946 Newell, F. G. 3362 Newlands, G. 1428, 2257 Newsom, J. H. 1176 Newson, H. D. 378, 1807, 2368 2368 Newson, R. M. 246 Newson, R. M. 246 Newton, J. 693 Ng, H. K. 739 Ng, S. K. 1657 Ngoka, J. M. 2972 Ngoka, J. M. 29/2
Nguyen-Hoang-Nam 1452
Nguyen, T. X. 2607
Niaz, S. 1557, 2938
Nicholson, A. J. 669, 1369
Nickels, C. 3370
Nickels, D. G. 3104
Nickerson, J. C. 1387
Nickerson, K. W. 1536
Nickle, W. R. 1538
Nicolescu, G. 1788
Nicolis, G. 1576
Nielsen, L. T. 210
Nieminen, M. 3008
Niesiołowski, S. 2391, 2394
Nijhout, M. M. 1732
Niki, T. 464
Nikitchenko, N. T. 2736
Nikitina, N. A. 360, 2342
Nikolaeva, G. A. 360, 2342 Nguyen-Hoang-Nam 1452 Nishet, R. M. 669 Nishijima, Y. 1913 Nishino, C. 1167, 2540, 3152 Nishioaka, T. 1441 Nishitani, H. 3271 Niyazov, A. N. 955 Niyazov, O. D. 2826 Niyazova, M. V. 254 Niyogi, A. K. 2662

N'jie, H. 2037 Noda, K. 3097 Noe, B. L. 3355 Nogge, G. 646, 1092 Nogić, S. 3109 Nolan, R. A. 588, 2031 Nomeir, A. A. 206 Nomura, K. 1606 Nontapan, C. 2829 Nordin, J. H. 2007 Nordoni, G. 768 Nordoni, G. 768
Normatov, Kh. A. 3336
Norment, B. R. 304, 3355
Northern Ireland, Department of Agriculture 2212
Norton, S. J. 2264
Norval, R. A. I. 937, 1638, 1942 1942 Nosek, J. 3087 Novak, M. 1625 Novak, R. J. 1234, 2612, 3280 Novikov, V. G. 1029 Novikov, Yu. M. 2357 Nowel, M. S. 3155 Nowell, W. R. 2117 Numata, T. 3108 Nunn, A. J. 739 Nuorteva, P. 221 Nuorteva, S. L. 221 Nurakhanova, G. N. 88 Nuorteva, S. L. 221 Nurakhzhanova, G. N. 88 Nurulhuda, A. 2170 Nutting, W. B. 279, 735, 921, 1001, 1002, 2228, 2229 Nwadiogbu, N. 2210 Nyindo, M. 149, 3326 Oatman, E. R. 3372 Obasaju, M. F. 47 Obenchain, F. D. 273 O'Brien, M. F. 1923 O'Brien, R. D. 1347 Obukhova, V. R. 3307 Ocamba, J. G. R. 2215 Ocampo Candido, A. 1463 Ochoa A., J. O. 1295, 1584, Ochoa A., J. O. 1295, 1584, 1585, 3312 1585, 3312
Ochssee, G. A. Boon von 2982
O'Connor, B. M. 1970
OConnor, B. M. 3421
O'Connor, C. T. 2067
O'Connor, J. D. 125, 2595
O'Connor, R. J. 3234, 3235
Oda, T. 2050
Oddo, F. L. 2127
ODell, T. M. 1999
O'Chiambo, T. R. 3001 Oddo, F. L. 2127
ODell, T. M. 1999
Odhiambo, T. R. 3001
Odland, G. C. 2269
Oehler, D. D. 2425
Oei, K. G. 1825
O'Flynn, M. 194
O'Flynn, M. A. 893
Ogata, M. 288, 983, 1423
Ogiso, M. 1734
Ogston, C. W. 1511
Ogunji, F. O. 500, 1108, 3415
Ogwal, L. M. 1110
O'Hagan, J. E. 263
Ôhashi, M. 603
Olba, M. 1228
Ohkawa, K. 3366
Ohno, I. 2508
Ohshima, K. 2261
Ohsumi, T. 2502
Ohta, K. 1418
Ohta, M. 1204
Ohtaki, T. 886, 1377
Ojijo, E. 2448
Okada, K. 2508
Okaily, A. K. Al- 2917
Okazawa, T. 1295, 1582, 1584, 1585
Okereke, T. A. 619, 921 1585 Okereke, T. A. 619, 921 Okiwelu, S. N. 2996 Okorie, T. G. 2216 Okulov, V. P. 86 Okulova, N. M. 708, 1044, Okulova, N. M. 708, 1044, 1066
Olejníček, J. 238
Olevall, O. 1661
Oliva, O. F. P. 2655
Oliveira Filho, A. M. de 350, 560, 807, 1507, 1746
Oliveira, G. P. 713
Oliveira, J. L. de 1747

Oliveira, M. R. 242 Oliveira, T. S. de 3167 Oliver, A. D. 2209 Oliver, J. H., Jr. 273, 968 Oliver, J. H., Jr. 2/3, 968
Olobo, J. 1085
Olson, E. H. 2120
Olson, J. K. 375
Olsuf'ev, N. G. 2692, 3348
Omar, D. 2548
Omar, M. S. 147
Omelaeva, R. N. 1075
Omer, S. M. 3238
Önder, F. 1191
Ong, K. H. 1657
Onishi, O. 1295, 1582
Ono, H. 1583, 2665
Onwubiko, A. O. 2895
Onyango, P. 651, 1085
Onyiah, J. A. 1314, 1864
Opiyo, E. A. 1316
Oquendo, M. Guillen 3078
Orakaeva, N. S. 1013
Orchard, I. 1182, 2856
Orchard, R. D. 2188
Orlov, B. N. 307 1085 Olobo, J. Orlov, B. N. 307 Orloy, B. N. 307 Ortega Gutiérrez, M. 325 Ortega, R. 37, 561 Orth, R. E. 677 Ortíz C., I. 2577 Osburn, R. L. 1935, 2739, 3071 Oscherov, B. 400 Oschman, J. L. 2175 Oschman, J. L. 2175 Ose, S. 3271 O'Shanny, W. J. 2248 Oshima, K. 1450 Osman, O. M. 1520 Osmani, Z. 2879, 3124 Osterbur, D. L. 2068 Østergaard, P. A. 1426 Ostermeyer, E. C. 2722 Oswald, A. 2459 Otteng, A. K. 1115 Otero Colina, G. 1462 Otesile, E. B. 47 Otieno, L. H. 651, 1085, 1099, 1312 Otesile, E. B. 47
Otieno, L. H. 651, 1085, 109
1312
Otsuki, K. 880
Ottea, J. A. 3343
Ottley, M. L. 2654
Otzen, W. 2005
Ouchi, T. 727
Ouedraogo, M. 433, 2678
Ouhelli, H. 2166
Overal, W. L. 2205
Owaga, M. L. A. 3002
Owen, L. G. 1670
Owen, W. B. 2615
Owor, J. 3326
Ozaki, K. 3281
Özar, A. İ. 788
Ozarmagan, G. 519
Padbidri, V. S. 3090
Padgett, P. D. 1756
Padua, L. E. 1228
Pae, C. M. 2122
Page, T. L. 1162
Paine, G. D. 2241
Pajot, F. X. 139, 140, 1154, 2969
Pakarnseree, L. 2805 2909
Pakarnseree, L. 2805
Pal, R. 2359
Palacios-Vargas, J. G. 2243
Palička, P. 514
Paling, R. W. 2474 Paling, R. W. 2474
Pallotti, E. 1331
Palma, R. L. 1494
Pan, F. C. 819
Pan, L. Z. 1526
Pan, S. X. 855
Panaitescu, D. 980
Panchenko, A. B. 1045, 1076
Pandare, D. 2637
Pandey, V. S. 2166
Pandeya, S. N. 2504
Pandya, A. P. 2662, 2968
Pandya, M. K. 2952
Panfilova, I. M. 722, 978
Panicker, K. N. 2373, 2621, 2640 2640 Pannerer, X. le 223 Pant, C. P. 94 Paoli, C. de 10

Parham, D. J. 1924 Parish, L. C. 348 Park, P. O. 1327 Parker, G. A. 3050 Parker, J. D. 2401 Parker, K. L. 2631 Parker, J. D. 2401
Parker, K. L. 2631
Parker, R. J. 961
Parra G., D. 700, 2218
Parrino, J. 2455
Parsons, J. 1641 Parsons, J. 1641
Partono, H. F. 1777
Parveen, T. 3257
Paschke, J. D. 63
Pascoe, R. 1439
Pascoe, R. R. 3091
Pascual Sánchez-Gijón, E. 129 Pass. G. 926 Passo, G. A. de G., Jr. 2857 Passova, O. M. 2146 Pasteur, N. 825, 1221, 2104, 2105, 2366, 2877, 2967, Pastoret, P. P. 3
Patel, N. 149
Patel, N. R. 2030
Patil, T. N. 879
Pattanayak, S. 624, 2054, 3270
Patterson, R. S. 455, 1090
Paul, B. S. 750
Paul, R. 2177
Pauli, G. 1654, 1955
Paulian, R. 2529
Paulini, E. 2018
Paulloyo, S. 1011, 3289
Pauloyová, J. 1011, 3289
Pautou, G. 2743
Pavlichenko, V. I. 430, 642, 2663, 2978 3281 2663, 2978 2663, 2978
Payneau, A. ... 320
Peacock, A. J. ... 2995
Pearson, A. M. ... 826, 1546
Pearson, J. E. ... 3149
Peck, S. B. ... 3378
Pedersen, R. J. ... 289
Pedreño, J. Sánchez ... 3308
Pedroso, M. C. ... 2660
Peihui, C. ... 680
Peimenburg, E. H. M. ... 215 Peihui, C. 680
Peijnenburg, F. H. M. 2157
Pelhate, M. 2559
Pelikan, P. 2008
Pelissero, G. 2014
Peloquin, J. J. 3280
Pelsue, F. 670
Pelsue, F. W. 2113
Pelsue, F. W., Jr. 1911
Peña, A. Estrada 3419
Penev, I. 2542
Pengelly, D. H. 2614
Penzlin, H. 338
Peraçoli, M. T. S. 1588, 1589, 3334 3334 3334 Pereguda, T. A. 198 Pereira, A. C. B. 1507 Pereira, M. de C. 2476 Pereira, M. E. A. 2295 Peres, C. A. 218 Perez, C. 3403 Pérez C., E. 3393 Pérez, F. Albala 2850 Pérez Rivera R. A. 34 2476 2295 Pérez Rivera, R. A. 3429 Pérez Urtiz, T. M. 1129 Perié, N. M. 1410, 2225 Périères, J. 132, 636, 2052 Perišić, S. 3111 Perreau, P. 958 Perreau, P. 958 Persoons, C. J. 2 Perveen, A. 119 Pesson, B. 3199 Pesson, R. 3200 2554 Pest Infestation Laboratory, Pest Intestation Laboratory,
Denmark 1479
Pétavy, A. F. 1669
Peters, W. 90, 2624
Petersen, H. D. 2169
Petersen, H. del var 2431
Petersen, J. J. 377, 2932, 3261
Peterson, B. V. 143, 2587
Peterson, C. A. 2499

Papavasiliou, S. 1576 Papp, L. 675, 3016 Pardal, J. F. 3115

Peterson, E. D. 1196 Peterson, E. L. 67, 406, 858, 1600 Peterson, L. G. 1389 Peterson, R. D. 474 Petit, G. 59 Petralia, R. S. 1770 Petrarca, V. 765, 766, 767, 774, 1571 Petrelli, G. 768, 2570 774, 1571
Petrelli, G. 768, 2570
Petrenko, A. A. 1057
Petrescu, S. 75, 2039
Petrova, A. D. 926
Petrović, M. 3109
Petrović, M. 3109
Petrović, Z. 701
Petryshak, A. 548
Peus, F. 3340
Peyton, E. L. 2070
Pfadt, R. E. 2524
Pfeiffer, D. G. 226
Pfeiffer, H. 515
Pfotenhauer, P. 1566, 1567
Phang, O. W. 1412
Phelps, R. J. 647
Philip, R. N. 234, 3065
Phillippon, B. 1702
Phillai, J. S. 107
Phillips, D. L. 61
Phillips, S. A., Jr. 2203, 2206
Phinichpongse, S. 96
Piazak, N. 1637
Pichon, G. 120, 121, 2589
Pickens, L. G. 454
Picer J. J. 1693 Pickens, L. G. 454 Picq, J. J. 1693, 3310 Picci, J. J. 1693, 3310
Piekarski, G. 534, 1198, 1199
Pierdominici, G. 768
Piesman, J. 1651
Pietra, P. 1370, 1614
Pifano C., F. 2577
Piffl, E. 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932
Pilgrim, R. L. C. 1494, 2312
Pillai, J. S. 412, 1729, 1833
Pillai, M. K. K. 2602, 2603
Pilz, R. 748
Pimentel, D. 751, 2410
Pimley, R. W. 2682
Pimm, S. L. 2730
Pimprikar, G. D. 191, 3355
Pinchin, R. 350, 560, 807, 1507, 1746
Pinchuk, L. M. 1077
Pinger, F. R. 1790
Pinger, F. R. 1789, 2900
Pinjaö, R. C. 1101
Pinheiro, F. P. 2627, 2655, 2658, 2897, 2898, 3224
Pinniger, D. B. 1140
Pinson, C. K. 481, 1628
Pinson, J. L. 1193
Pinto Dias, J. C. 3172
Pipa, R. L. 550 Pinson, J. L. 1193
Pinto Dias, J. C. 3172
Pipa, R. L. 550
Pipano, F. 944
Piper, G. L. 3159
Pires, C. A. 1843
Pisati, A. 991
Pishokha, N. P. 312
Pistoia, V. 989, 990
Pitariu, T. 980
Plapp, F. W. 879
Plapp, F. W., Jr. 909, 1365, 3343
Platner, G. R. 3372 Platner, G. R. 3372 Platts-Mills, T. A. E. 739, Platts-Mills, T. A. E. 739, 2489, 2492
Platzer, E. G. 1227, 1229, 2089, 2916, 3244
Plessis, J. L. du 945
Pletzen, R. van 2364
Plotnikova, L. F. 3399
Podboronov, V. M. 2745
Podufal, C. Hintze- 783
Poehling, H. M. 74, 187
Poggio, T. 3043
Poinar, G. O., Jr. 1134, 1357, 3320
Pokorny, K. S. 3406 3320 Pokorny, K. S. 3406 Polevik, N. L. 2693 Politzar, H. 873, 1088, 1323, 1324, 1699, 1875, 1884,

Pollack, R. J. 2981 Pollock, R. J. 2266 Polyakov, D. I. 928 Pomonis, J. G. 2277 Pomonis, J. G. 2277
Ponirovskiĭ, E. N. 3307
Pont, A. C. 2511
Pont, F. le 139, 2969
Popov, V. F. 251
Popov, V. V. 3083
Popova, N. A. 56
Popova, P. P. 3084
Porshnyakov, G. A. Mazokhin1376 1376 Porter, G. N. 64 Portus, M. 284, 643, 2974 1971
Posey, K. 425, 1763
Pospíšil, L. 897
Possani, L. D. 522, 2781
Post, D. C. 3375
Post, L. O. 230
Potgieter, F. T. 950, 3082
Pougalan, M. 2560
Povalishina, T. P. 1046, 1049
Povolný, D. 897
Powell, J. R. 126, 399
Powell, M. B. 296
Powell, P. K. 554
Pozo, D. Guevara 3117 1971 Pozzessere, S. 767 Pozzessere, S. 767
Prado, A. P. do 195, 2268
Prasad, R. 3216
Prasad, R. S. 2581
Prasittisuk, C. 824
Pratlong, F. 2148
Pratt, G. E. 2009
Pratt, M. S. 181 Prawel, D. A. 2556 Presser, S. B. 1784, 2626 Presser, S. B. 1784, 2626 Preston, S. 347 Prévost, Y. H. 673 Price, M. A. 2739 Price, P. W. 536, 2308 Price, R. D. 31, 33, 1171, 1492, 2849, 2854, 3164 Pridantseva, E. A. 56 Priester, T. M. 392, 2353 Prigarin, Yu. N. 1013 Prillinger, L. 1158 Primor, N. 200 Pritchard, G. 1811, 3252 Pritchard, G. 1811, 3252 Prod'hon, J. 120, 121, 2589 Proskuryakova, A. M. 2588 Prost, A. 147 Prost, A. 147 Protopopova, G. V. 1073 Prout, T. 3140 Prud'hom, J. M. 145 Pryor, S. C. 369, 2035, 2940 Puccini, V. 764 Pudney, M. 1468, 1825 Pudtanasirikoon, C. 2132 Pudtanasirikoon, C. 2132
Pulido F., J. 579
Pull, J. 94
Pull, J. H. 3194
Pullan, N. B. 245
Pulman, D. A. 1378, 1985
Purnell, R. E. 946, 1642, 1649
Purnomo 1777
Py-Daniel, V. 1846, 2155
Pyliotis, N. A. 911
Qadri, S. S. H. 528, 1447
Qiu, M. H. 418
Qu, J. Q. 421
Quaglia, R. 989
Quattlebaum, E. C. 1687 Quaglia, R. 989
Quattlebaum, E. C. 1687
Queensland, Department of
Primary Industries 16
Queensland, James Cook
University 2836
Quick, M. P. 3009, 3101
Quiles Mora, J. 3308
Quillévéré, D. 433, 2678
Quinlan, R. J. 2680
Quintana, J. 1256, 1259
Quintero M., M. T. 1465, 2774 2774 2774 Quintero, M. T. 1128 Quiroz, M. Gutiérrez 352 Raadt, P. de 1311 Raana, K. 119, 1557, 2938 Rab, M. O. Gad El 2192 Rab, M. Zaka-ur- 859

Rabello, E. X. 2970 Rabinovich, J. 40, 353 Rabinovich, J. E. 3138 Rabocheva, E. I. 532 Raccaud, J. Schoeller- 1605 Rachman, N. J. 1619 Rack, G. 1363
Radoutcheva, T. S. 250
Radovsky, F. J. 275, 922, 2238, 3133
Radike, N. D. 2304
Rafael, J. A. 2187, 2874
Raghow, R. S. 582
Rahalkar, G. W. 2056
Rahim, A. A. Abdel 1520
Rahim, M. Ataur- 2642
Rahman, A. M. Abdel- 2634, 2635, 2636
Rahman, S. J. 572, 609, 1264, 1265 Rack, G. 1363 1265 Rai, K. 2337 Rai, K. S. 593, 1547 Rajagopalan, P. K. 2600, 3218, 3269 Ajagopaian, F. K. 2000, 3218, 3269
Rajavelu, G. 715
Rajeeya, A. M. 28
Rajula, G. S. 2926
Ralley, W. E. 1822
Ralph, D. 112
Ram, S. M. T. 3093
Ramabrahmam, P. 2625
Ramalingam, S. 2170, 2359
Ramaprasad, K. 2599
Ramaswamy, S. B. 2555
Rambajan, I. 3317, 3318
Ramchurn, R. 344
Ramdani, M. 3183
Ramesh, A. 3217
Ramkaran, A. E. 90
Ramos Elorduy de Conconi, J. Ramos Elorduy de Conconi, J. 1466 Ramos, H. da Cunha 2069, 2638 Ramos, L. M. Zapatero 243 Ramos, M. González- 291 Ramoska, W. A. 118, 2892, 3260
Ramsamy, M. 444, 3036
Ramsay, G. W. 281
Ranade, D. R. 1381
Ranaivosata, J. 2389
Ranasinghe, L. E. 2104
Randell, W. F. 2028
Randolph, S. E. 274, 2161
Rangel, E. F. 2019
Rani, P. U. 3124
Rao, B. Barhmanad 1447
Rao, C. K. 102, 1260, 2057, 2599, 3223
Rao, J. 2562
Rao, J. S. 2599
Rao, K. 2562
Rao, K. M. 2623
Rao, K. M. 2623
Rao, K. N. A. 2343, 2470 3260 Rao, K. 2562
Rao, K. M. 2623
Rao, K. N. A. 2343, 2470
Rao, K. S. J. 2783
Rao, L. 1007
Rao, N. S. K. 923
Rao, P. K. 2599
Rao, P. K. 2599
Rao, P. Subba 607
Rapley, P. E. L. 533, 1720
Rarotra, J. R. 2748
Rasmussen, C. D. 1741
Rasnistyn, S. P. 1934
Rastegaev, Yu. M. 442, 654
Ratanaworabhan, N. 2822
Ratcliffe, B. C. 3379
Ratcliffe, N. A. 544
Rathburn, C. B., Jr. 371
Rathor, H. R. 1541, 1557, 1775, 2915, 2938, 2960
Rathore, H. S. 3256
Rauchbach, K. 282
Rausch, M. 1268
Raust, P. 1943
Ravishankar, G. A. 3130
Ravishankar, G. A. 3130 Ravishankar, G. A. 3130 Ravkin, Yu. S. 1052 Rawash, I. A. 1754 Rawash, I. A. 1754 Ray, A. C. 230 Rayburn, J. D. 1118, 1119, 1120, 1121, 3147, 3148 Raychaudhuri, D. N. 339

Raymond, H. L. 217, 659 Raymundo, H. H. 1503 Razumova, I. V. 706 Razumova, I. V. Razumova, I. V. 706
Read, R. G. 2283
Readshaw, J. L. 1369
Ready, P. D. 633
Reagan, T. E. 2209
Reagor, J. C. 230
Rebholtz, C. 160
Rechav, Y. 2214
Redding-Coates, T. A. 3272
Reddy, A. B. 2837
Reddy, G. R. 2784
Reddy, K. R. 2562
Reddy, M. V. 2452
Reddy, M. V. 2452
Reddy, M. Vikram 1595
Reddy, S. R. 3213 Reddy, S. R. 3213 Reddy, T. Gopalakrishna 2494 Reeves, W. C. 2080, 2082 Refaii, A. H. El- 2756, 3374 Regalene, G. 3399 Rege, M. S. 2794 Reháček, J. 271, 924, 3399 Rehim, L. Abdel- 366 Reich, C. H. 2217 Reichardt, W. 682, 3043 Reid, J. A. 108, 1799 Reierson, D. A. 3187 Reigel, F. 113, 1568, 1569 Reinecke, J. P. 1342 Reinert, J. F. 2948 Reisen, W. K. 395, 1557, 1775, 2938, 3255, 3257, 3259 Řeháček, J. 271, 924, 3399 3259 Reisman, R. E. 1386, 1630, 1634 Reiter, I. 934 Reiter, P. 854 Rejesus, B. Morallo- 2838, 3127 Rékási, J. 2012 Remington, M. 2976 Remington, M. P. 2400, 2977 Ren, S. M. 567 Renapurkar, D. M. 1561 Renard, J. 1669 Renaudet, J. 2038 Renaudet, J. 2038 Rensburg, L. van 3082 Repkina, L. V. 1934 Research Branch, Agriculture Canada 2510 Resh, V. H. 1782, 2114, 3133 Reshetnikov, I. A. 716, 2732 Restifo, R. A. 3251 Rettich, F. 387, 401, 828, 2942 2942 2942
Retzer, H. J. 1601, 2273
Reyna Robles, R. 1126, 1460
Reynolds, D. G. 1825
Reynolds, I. F. 313
Reynolds, S. E. 1159, 1337
Reynouard, F. 697
Reznik, P. A. 1047

843, 2896

843, 2896 Richardson, M. A. 582 Ricklefs, R. E. 2282 Rider, G. 2396 Riding, G. A. 960, 1395 Ridsdill Smith, T. J. 192 Rieb, J. P. 1574, 3299 Riedel, H. Sollers-Rieger M. 1249

Riedel, H. SollersRieger, M. 1249
Riegert, P. W. 2539
Rietschel, G. 443, 1336
Rifaat, M. A. 3293
Riha, J. 3230
Rijckaert, G. 3094
Rijcy, J. 2500
Riner, J. C. 998, 2488
Ring, B. 3051

1924

3063 3059 3173 Roguès, G. 2213 Rojas, A. 3176 Rojewski, C. 305 Roman, B. 2982 Reynouard, F. 697 Reznik, P. A. 1047 Rhee, K. S. 909 Riad, Z. M. 2469, 2646 Ribbeck, R. 2191 Ribeiro, H. 2069, 2638 Ribeiro, J. M. C. 354, 2295, Romano Mechulan, M. 3171 Ribi, W. 3041 Richard-LeNoble, D. 861 Richards, O. W. 691 Richardson, B. B. 576, 834,

2967

Ristic, M. 2221

Rioux, J. A. 132, 133, 134, 368, 636, 2052, 2148, 2149, Ross Institute of Tropical Hygiene 840 Ross, K. 303 Ross, Q. E. 577, 1234 Riper, C. van, III 1796 Ros'tsishevska, M. 548 Ritchie, S. A. 385 Roth, L. 296 Ritzmann, R. E. 1166 Rothschild, M. Rothschild, M. C. 2305
Rothschild, N. C. 2305
Rothschild, N. C. 2305
Rothstein, M. 1608
Rougement, A. 147
Rougon, C. 3376
Rougon, D. 3376
Roussel, G. 758
Roweliffe, C. 2403
Rowe, S. F. 915
Rowley, A. F. 544
Rowley, W. A. 385
Roy, N. K. 2506
Roy, R. G. 2054, 3270
Roy, Y. P. 1260
Roychowdhury, S. P. 101
Rozhon, E. J. 2630
Rubini, P. G. 665
Rubtsov, I. A. 424, 2154, 2693, 2695
Rubtsova, L. I. 261 Rivera, R. A. Pérez 3429 Rivière, F. 120, 121, 2589 Rothschild, N. C. 2305 Rivosecchi, L. 9, 10, 2392, Rizvi, S. A. 888 Ro, Y. M. 1958, 2763 Robaux, P. 517 Robbins, R. G. 2586 Robbins, W. E. 998, 2488 Roberts, V. 2637 Roberts, C. J. 2842 Roberts, D. R. 2657, 2658 Roberts, D. W. 2258, 2517 Roberts, M. J. 1319 Roberts, R. 1753 Roberts, R. H. 1193, 1842, Robertson, A. K. 104 Robertson, K. 1341 Robertson, R. 181 Robertson, W. D. 939 Robin, Y. 704, 1244, 1411, 1826 2693, 2695 Rubtsova, L. I. 261 Ruckert, E. 2163 Rudin, W. 1527 Rudnick, A. 1245, 1246 Rudolph, D. 926 Ruebush, T. K., II 3397 Ruegg, R. P. 3175 Ruff, J. 904, 3352 Ruffi, T. 803, 820, 1148, 1174, 3215 Robinson, D. M. 1185 Robinson, W. H. 554 Robles, R. Reyna 1126, 1460 Rocca, J. 3058 3215
Rumfelt, T. 1187, 2303
Runstrom, E. S. 2841
Rupes, V. 1639
Ruprah, N. S. 32
Rush, W. A. 563, 1749
Rusinov, A. A. 2845
Russel, S. 102
Russell-Smith, A. 2163
Russo, P. K. 3182
Rust, M. K. 3187
Ruther, H. 564
Rutledge, L. C. 1525, 2347, 3249 Rocha e Silva, E. O. da 812, 3215 3173
Rochat, H. 742
Rochers, B. des 2086, 2087
Rockett, C. L. 1212
Rodhain, F. 833, 2389, 3392
Rodrigues da Silva, G. 3172
Rodrigues, F. M. 3275, 3276
Rodrigues, V. L. C. C. 808
Rodríguez, D. 40
Rodríguez García, F. 3308 Rodríguez, J. A. Rodríguez 129 Rodriguez, J. G. 2834 3249 3249
Rutter, I. 2509
Rutti, B. 2740
Rutz, D. A. 374, 1345, 1814
Ruzo, L. O. 1445
Ryan, K. J. 169
Ryan, L. 150, 1095, 2983
Ryazantseva, A. E. 1079
Ryba I 362 Rodríguez, J. Romero 3117 Rodríguez, O. 291 Rodríguez Rodríguez, J. A. 129 129
Roebuck, A. S. 658
Roelofs, W. L. 1686, 1983
Rogers, A. J. 3352
Rogers, D. J. 1097, 2161
Rogers, R. J. 949
Rognes, K. 881, 1907, 2408
Rogoff, M. H. 1540
Rogoff, W. M. 2188, 2447, 2700 Ryba, J. 362 Rybalchenko, V. M. 1757 Ryl'tseva, E. V. 1049, 2732 Saadi, S. H. Al- 2917 Saba, F. 1712, 1713 Sabattini, A. 765, 766, 770 Sabattini, M. S. 396, 2629 Sabrosky, C. W. 1832 Sáchez-Covisa, A. 129 Sadekova, L. Kh. 1021, 1050, 2571 Ryba, J. 362 2213, 2233 Roman, B. 2982
Romano Mechulan, M. 1764
Romasheva, L. F. 1048
Rombach, M. C. 1410
Romero Rodríguez, J. 3117
Romney, S. V. 381
Ronald, N. C. 2226
Rong, Y. L. 418, 865
Rongjing, J. 407
Root, F. M. 1256
Rosa, A. P. A. T. da 2627, 2655, 2656, 2898, 3224
Rosa, J. F. S. T. da 2655, 2898, 3224
Rosa, J. F. Travassos da 2656
Rosas Costa, J. A. 1149
Rosay, B. 3201, 3212
Rose, D. L. 3081
Rose, H. A. 1371, 2712
Rosen, L. 847, 1784, 2883
Rosenberg, G. 967
Rosenberg, C. J. 1850 2571 2571
Sadovenko, E. V. 1061
Sadovskaya, N. P. 1056
Sadykhov, I. A. 1051
Sadykov, V. G. 3307
Saetta, M. 992
Saf'yanova, V. M. 867
Sagdieva, P. D. 3389
Sage, B. 125, 2595
Sagell, B. 1959
Saguez, B. Beaucornu2674
Saguna, S. G. 1808 Saguez, F. BeaucornuSaguna, S. G. 1808
Saha, G. N. 227
Sahai, R. 3223
Sahu, H. 103
Said, A. El 497
Saikia, H. C. 2623
Saikku, P. 702
Saini, R. K. 2999
St. George, T. D. 862, 1253
St. Leger, A. S. 1975
Saito, K. 880
Sakai, R. K. 119, 372, 595, 1557, 2377, 2938
Sakai-Wada, A. 790
Sakamoto, C. J. 3422
Sakla, A. A. 2475 Rosen, L. 847, 1784, 2883 Rosenberg, G. 967 Rosenberg, L. J. 1850 Rosenberg, R. 848 Rosenthal, M. D. 3404 Rosický, B. 1560 Roslavtseva, S. A. 198, 1893 Ross, D. A. 1535 Ross, D. H. 2667

444 Salamanna, G. 896 Salandra, M. la 764 Salaun, J. J. 393, 1411, 1637, 1826, 2037, 2038 Salazar Schettino, P. M. 352 Salazar Schettino, P. M. 3
Saleh, R. 1605
Salem, S. A. 366
Sales, S. 1326, 1714, 2361
Salit, A. M. 2475
Salkin, I. F. 2240
Salleh, M. B. Mohd- 197
Salmon, J. 512
Sal'nikov, V. G. 1038
Saluzzo, J. F. 1411, 2066, 3295 Samarawickrema, W. A. 1205, 1206
Samba, E. M. 2037
Sambhavaphol, W. 2814
Samnotra, K. G. 624
Samra, M. T. Abu-777, 3418
Samšiňák, K. 514
Samuel, W. M. 556
Samurov, M. A. 815
Sanabria, M. E. Solano 2138
Sánchez Acedo, C. 340, 3419
Sánchez-Covisa Villa, A. 129
Sánchez Diaz, B. 5, 6. 1206 Sánchez Diaz, B. 5, 6, 561 Sánchez-Gijón, E. Pascual 129 Sánchez Pedreño, J. 3308 Sandeman, D. C. 459 Sangvaranond, A. 2806 Santagata, V. 9 Santambrogio, A. 566 Santis, L. de 555 Santokh Singh 3014 Santos, C. E. 350 Santos Dias, J. A. Travassos 1404 1404
Santos, J. dos 2139
Santos, J. L. F. 2575, 2970
Santos, J. M. M. 1768
Santos, M. A. V. 3224
Santos, R. A. S. 2780
Santrach, P. J. 1389
Sanyal, R. K. 1260, 1261, Sanyan, R. 1200, 1201, 1262
Sanyang, B. 1305
Sanyang, B. J. 1298, 1299
Sanyang, Y. 393
Sapegina, V. F. 1052, 3184
Sarà, M. 896
Sarhan, M. E. 574, 1801
Sarkar, A. 23, 1681
Sarkar, J. K. 2620
Sarkar, P. K. 2623
Saroso, J. S. 2801
Sarr, M. 704
Sartabaev, S. K. 1033
Sarwat, M. A. 3293
Sasaki, H. 3023
Sasaki, H. 3023
Sasaki, H. 3023
Sasaki, O. 2908
Sasao, F. 3286
Sato, S. 603, 3271 1262 Sato, S. 603, 3271

Sattelle, D. B. 1159, 1998

Sauer, J. R. 1644

Saul, S. H. 1234

Saunders, D. S. 1600, 2278

Saunders, J. P. 1412

Savage, E. A. 2292

Savage, K. E. 846, 1816, 3236

Savel'ev, V. N. 1186

Savignac, R. 1818, 2611

Saviolo, N. 823, 2179

Sawadogo, R. 2672

Sawaf, B. M. El- 478, 2720

Sawayama, T. 85

Sawy, M. F. El- 562

Saxena, A. K. 1173, 2011, 2568, 2852

Saxena, B. P. 1755

Saxena, R. 2421

Saxena, S. C. 1165

Sayle, J. D. 1439

Sazonova, O. N. 3264 3271 Sayle, J. D. 1439 Sazonova, O. N. 3264 Schaal, A. W. J. van der 201 Schaefer, C. H. 2088, 2109, 2112, 3013 Schaefer, M. 2005 Schaefer, T. 1650 Schaeffer, A. E. 234

Schal, C. 26 Schalkwyk, D. J. van 621 Scharf, W. C. 2585 Scheefers-Borchel, U. 1838 Scheefers, H. 1838 Scheefers, H. 1838 Schein, E. 272, 499, 709 Scheller, K. 3354 Schembri, S. P. 1384 Schenone, H. 3176 Scherer, W. F. 1828 Schettino, P. M. Salazar 352 Schiefer, B. A. 3234, 3235 Schlee, D. 2511 Schleger, A. V. 2471, 3072, 3073 Schlein, Y. 874, 2332, 3074, 3324, 3325 3324, 3325 Schlotthauer, J. C. 600 Schlunegger, B. 2740 Schmidt, B. A. 2552 Schmidt, C. D. 3010 Schmidt, G. 545 Schmidt, H. 690 Schmidt, J. O. 231, 2205 Schmidt, S. P. 1227, 1229 Schmidtmann, E. T. 417, 2965, 3301 Schneider, R. 2252 Schnetter, W. 1250 Schnieder, I. 1470 Schnetter, W. 1250
Schnieder, I. 1470
Schoieder, I. 1470
Schoeller-Raccaud, J. 1605
Schoenenberger, M. C. 842
Schoenfeld, F. J. 381
Schoffield, C. J. 2293, 2294
Scholten, T. 155
Scholtz, C. H. 2528
Schotz, M. 263
Schreck, C. E. 425, 1525, 1763, 1813, 1937
Schreiner, I. 751
Schröder, J. 1645
Schröder, P. 1293, 1294
Schulka, H. 3350, 3351
Schumacher, E. 780
Schwab, R. G. 2002
Schwan, T. G. 1513, 3245
Schwan, V. R. H. 1513
Schwartz, H. J. 2455
Schwartz, H. J. 2455
Schwartz, M. 649, 2679, 2700
Scirocchi, A. 657, 771, 772, 773
Scoles, G. A. 2981 773 Scoles, G. A. 2981 Scorza, J. V. 326, 632 Scozzari, R. 774, 1571 Scrivenor, Sir T. 752 Scozzari, R. 774, 1571
Scrivenor, Sir T. 752
Searle, R. J. G. 1444
Seawright, A. A. 2766
Seawright, J. A. 450, 1808, 3232, 3370
Sebae, A. H. El- 761
Sebastian, A. 1247
Sebastien, R. J. 1285, 2980
Séchan, Y. 146
Secretary for Health Zimbah Secretary for Health, Zimbabwe 2006 Seethaler, H. 1969 Seethaler, H. 1969 Segura, E. L. 351 Seifert, A. M. 596 Seifert, R. P. 1222, 2362 Sein, M. M. 1247 Seith, M. E. 2535 Sékétéli, A. 2672 Sekeyová, M. 3069 Sekhon, S. S. 1180 Sekla, L. H. 1809 Sekhon, S. S. 1180 Sekla, L. H. 1809 Self, L. S. 115 Sellers, R. F. 328 Sellin, E. 873, 1088, 1315, 1699, 1884, 2684 Semenov, P. V. 3335 Sempala, S. D. K. 1112 Semushin, R. D. 1054, 1055, 1586 1586 Sen, S. K. 1152 Seng, C. M. 413 Sengupta, D. N. 3417 Seni, A. 624 Sergeg, I. G. 1554 Serna de Fetabon, G. Serna de Esteban, C. J. de la 524

Service, M. W. 64, 97, 539, 1849 Servín V., R. 1127 Sethi, M. S. 795, 2748 Seureau, C. 692 Sevast'yanov, V. D. 1053
Sevilla, V. Basaca- 83, 3221
Seward, R. M. 3359
Seye, M. 1300
Seymour, K. G. 2829
Shadduck, J. A. 747, 1785
Shadebi, A. M. Al- 3086
Shafiq, S. A. 1351
Shah, I. H. 617
Shahid, A. A. 3257
Shakerzinova, S. G. 1013
Shakoori, A. R. 3356
Shakuntala, K. 3213
Shalaby, F. M. 3374
Shaldybina, E. S. 1081
Shaldybina, E. S. 1081
Shalli, A. K. 2917
Shanahan, G. J. 168
Shanbaky, N. M. 1397
Shankar, V. 2504
Sharma, G. P. 1558
Sharma, R. K. 2421
Sharma, S. K. 572, 609, 2601
Sharma, V. D. 795
Sharma, V. D. 795
Sharma, V. D. 795
Sharma, V. D. 795
Sharma, V. D. 963
Shashina, N. I. 717
Shatov, K. S. 3163
Shatrov, A. B. 507, 1674
Shaw, J. H. 1118, 1119, 1120, 1121, 3147, 3148
Shaw, J. H. 1118, 1119, 1120, 1121, 3147, 3148
Shaw, J. H. 2999
Shaw, M. R. 2696
Shcherbak, V. P. 445, 1065
Shcherbak, V. P. 445, 1065
Shcherbak, V. P. 445, 1065
Shcherbinina, O. Kh. 1636
Sheffer, A. L. 2455 Sevast'yanov, V. D. 1053 Sevilla, V. Basaca- 83, 3221 Shcherbinina, O. Kh. 1636 Sheffer, A. L. 2455 Shelden, G. P. 2632 Shelley, A. J. 870, 1580, 2155, 2399 2399
Shelley, B. K. 441
Shelley, M. W. 2713
Shemanchuk, J. A. 1237,
1286, 1287, 1288
Shen, C. P. 516
Shepard, G. L. 2007
Shepard, M. 751
Shepherd, R. 2323
Sheppard, C. 1367, 2440, 2699
Sheppard, R. G. 2264
Sheremet, V. P. 402, 1025,
2591 Sheremet, V. P. 402, 1025, 2591
Sherif, A. F. El- 562
Sherlock, I. A. 2296, 3167
Sherlok, I. A. 1137
Sherry, J. P. 1902
Shestakov, V. I. 1760
Shevchenko, A. K. 1062
Shewell, G. E. 2587
Shi, M. H. 1526
Shibazaki, S. 2204
Shiels, I. A. 949
Shikuma, S. 2108
Shimkina, M. A. 1063
Shimoda, T. 2450
Shirai, A. 1973
Shiraji, R. 2907
Shisler, J. K. 3207
Shockley, P. 1641
Shope, R. E. 2630, 2949
Shornikov, V. V. 1718
Short, N. J. 1638
Shoukrey, N. M. 2514
Shoukry, A. 477, 578
Shplistezer, Kh. 2691
Shriner, R. B. 3406
Shroyer, D. A. 847, 1784, 2134 2591 2134 2134
Shukla, G. S. 885, 3365
Shumakovich, E. E. 3053
Shuspanova, N. F. 1064
Shuttleworth, A. E. 3338
Sichinava, Sh. G. 2346
Siddiqui, T. F. 3255

Sidky, H. A. 366, 2646, 2755 Sidky, H. S. A. 2469 Sidorov, V. E. 3070 Siebenaler, A. J. 3362 Siemicki, R. 1578 Sighamony, S. 2879 Sight, S. H. 2802 Silard, R. 980 Silva de Oliveira, T. 3167 Silva, E. O. da Rocha e 812, 3173 Silva, G. R. da 3172 Silva Mattos, S. da 2049, 2072 Silva Passos, G. A. da, Jr. 2857 Silveira, A. C. 811 Silverman, J. 3187 Silverstein, R. M. 3 Simbolotti, P. 2461 Simco, J. S. 2433 Simco, J. S. 2433 Simetskiř, M. A. 728 Simkin, J. 1087 Simmons, J. R. 3086 Simmons, K. R. 2395 Simonová, V. 362 Simpson, D. I. H. 1641, 1825, 2037 2037
Simpson, M. G. 68
Sinclair, A. N. 183
Sinclair, D. F. 1903
Sinègre, G. 55, 69, 93, 580, 581, 1709, 1710, 1711, 2886, 3266, 3296, 3297, 3298
Singer, S. 1537, 1572, 1785
Singh, G. J. P. 332, 2010
Singh, K. 3018
Singh, P. B. 3276
Singh, R. N. 885, 3365
Singh, S. 3014
Singh, S. P. 795, 1490, 2374, 3294 3294 Singh, S. V. 458, 674, 1622 Singh, Y. N. 655 Singvi, P. M. 1633 Sinnary, K. El- 585, 1841 Sinsko, M. J. 2040, 2900 Sirigu, G. 71 Siriyanakarn, S. 109, Sirouzu, H. 1423 Sirrenberg, W. 1014 Sissom, W. D. 1008 109, 583, 584 Siti Aminah, N. 1554, 1555, 1556 Sitnikova, L. G. 994 Sittig, M. 2787 Sivasubramanian, P. 1615, Sivasubramanian, P. 1615, 2449
Sivkov, G. S. 3331
Sixl-Voigt, B. 928, 932
Sixl, W. 928, 930
Sizaret, P. 2779
Sjogren, R. D. 415, 1804, 2095, 3209
Skaer, H. B. 1159
Skaife, S. H. 775
Skalon, O. I. 2870
Skinner, J. C. 576, 834, 2896
Skinner, W. A. 1525
Skirkevičius, A. V. 541
Skirkyavichyus, A. V. 541
Skirkyavichyus, A. V. 541
Skirkyavichyus, A. V. 541
Skirkyavichyus, A. V. 1893
Slaff, M. 3292
Slater, A. J. 796, 1737
Sleeman, D. P. 2182
Slifer, E. H. 1180, 1517
Slingenbergh, J. 521 2449 Slifer, E. H. 1180, 1517
Slingenbergh, J. 521
Slooff, R. 2051
Slooff, R. 2051
Slor, H. 3051
Smies, M. 1334, 2157
Smiley, R. L. 3421
Smirnova, O. I. 928
Smit, F. G. A. M. 2329, 2583
Smith, A. Russell- 2163
Smith, C. 967
Smith, C. R. 2319
Smith, D. 425, 1763
Smith, D. 425, 1763
Smith, D. M. 1641
Smith, D. S. 1725
Smith, E. B. 2006
Smith, G. C. 44, 563
Smith, I. R. 2632

Smith, J. J. B. 1509 Smith, J. M. M. 219 Smith, J. N. 546 Smith, K. G. V. 2183 Smith, N. 425 Smith, P. H. 2435 Smith, R. B. 838 Smith, R. D. 222 Smith, R. K. 333 Smith, R. L. 303 2221 Smith, R. K. 333
Smith, R. L. 303
Smith, S. K. 27
Smith, S. M. 2044
Smith, T. A. 3241
Smith, T. J. R. 1924
Smith, V. W. 2142
Smola, U. 2714
Smolina, N. A. 2592
Sneller, V. P. 2608
Snoddy, E. L. 1937
Snodgrass, R. E. 2827
Snow, J. W. 457, 2169, 2429, 2434, 3362
Snow, W. F. 1317, 1863
Snowdon, W. A. 2652
Snyder, G. K. 1488
Soares Barata, J. M. 2575
Sobrero, L. 11, 3064
Sociedad Mexicana de
Entomología 1122, 1457
Società Italiana di Etologia
821 82.1 Società Italiana di Parassitologia 8, 763 Society of Chemical Industry 1433 Soei, K. I. 2865 Sofronić, A. 3111 Sohal, R. S. 460, 2172 Sokolov, V. D. 1718 Sokolov, V. D. 1718 Sokolova, E. Ya. 1718 Sokolova, L. V. 404 Solano Sanabria, M. E. 2138 Solarz, N. 1506 Soliman, S. A. 761 Sollers-Riedel, H. 3284 Solomon, L. 921 Solukha, B. V. 1211 Soman, R. S. 3275, 3276 Sonenshine, D. E. 711, 1407, 3066, 3402, 3404 Soman, R. S. 3275, 33 Sonenshine, D. E. 71 3066, 3402, 3404 Song, J. Y. 3100 Song, W. J. 2604 Soni, K. G. 1558 Sonnet, P. F. 2700 Soranzo, L. 1592 Soriguer, R. C. 2869 Sorokina, L. Ya 1043 Sosnina, E. F. 341, 343, 993, 2571 South African Institute for Medical Research 1478
Southern, D. I. 148
Southwood, T. R. E. 760
Souza Lopes, O. de 2949
Souza, M. C. M. de 1259
Spackman, E. W. 2524, 2525
Spain, A. V. 1903, 3033
Sparks, T. C. 2795
Spates, G. 2705
Spates, G. E. 892, 2437, 2438
Späth, P. 1568
Späth, P. J. 113, 114, 1566, 1567
Speight, B. 527 Medical Research 1478 Spath, F. J. 113, 114, 1366, 1567

Speight, B. 527
Spencer, J. P. 1133, 2429
Spencer, M. 1771
Spicka, E. J. 1970, 3145
Spickert, C. 967
Spielberger, U. 1329, 1330
Spielman, A. 1651, 2062
Spielman, J. M. 967
Spirina, T. A. 1893
Spiro-Kern, A. 2075
Spitalier-Kaveh, H. 59
Spiisteser, H. 1480
Spradbery, J. P. 663
Squires, E. J. 1641
Sreenivasan, M. A. 2697
Sreng, L. 337, 784
Srihongse, S. 3246

Srinivasan, A. 188, 903 Srinivasan, M. N. 2374, 3294

Srinivasan, M. V. 2193 Srivastava, A. 798 Srivastava, H. C. 2352 Srivastava, L. K. 552 Srivastava, U. S. 458, 674, 1622 1622
Staak, C. 3322
Staal, G. B. 1442
Stackiw, W. 1809
Stafford, E. E. 2810
Stamford, S. 1181
Stammler, G. 3026
Standaert, J. Y. 2884 Standfast, H. A. 1253, 3303 Stanley, P. I. 3009 Starcke, H. 2305 Stark, H. E. 1750 Stark, W. S. 1615 Starozhitskaya, G. S. 571, 1518 Starratt, A. N. 1487 Stechmann, D. H. 468 Stechmann, D. H. 468
Steel, C. G. H. 2856, 3175
Steele, J. E. 336
Steer, B. D. 235
Steere, A. C. 269
Stefan, P. 190
Steffan, W. A. 1210, 1241, 2124, 2943, 3139
Stegeman, R. Brieze-533, 1720 Stegeman, R. Brieze1720
Steger, R. 1386
Stegnif, V. N. 1523, 2356
Stehlik, M. 2451
Stein, W. 1599
Steiner, A. 2177
Steiner, W. W. M. 2068
Steinmann, H. 2512
Stella, E. 11, 3062
Stendel, W. 504, 1406
Stenton-Dozey, J. 2439
Stephen, S. 2343, 2470
Sternburg, J. G. 3123
Stetsenko, M. M. 867
Stewart, K. R. 2585
Stewart, K. R. 2585
Stewart, N. P. 3088
Steyskal, G. C. 677
Stiehl, U. 2191
Stiles, B. 63
Still, W. C. 2553, 2554
Stiller, D. 275
Stoaks, R. D. 2124, 3430
Stockmann, R. 743
Stochr, T. 1782
Stoffolano, J. G., Jr. 185
Stoilova, B. Zakharieva1 Stoilova 1720 Stochr, I. 1/82
Stoffolano, J. G., Jr. 185
Stoflolano, J. G., Jr. 185
Stojanović, Z. 3109
Stokes, D. R. 794
Stollar, V. 1834, 1835
Stone, W. B. 2240
Storgårds, K. 1673
Strand, R. J. 3377
Stratigos, J. 1576
Strausfeld, N. J. 3143
Streett, D. A. 112
Strelkova, M. V. 2146
Strickman, D. 2041, 3242
Strijbosch, H. 222
Strijnadkin, P. S. 740
Stringer, C. E. 2725
Stuart, B. P. 914
Stünzner, D. 928
Stup, J. L. 3234, 3235
Stupin, V. I. 1548
Stusser, F. 1837
Stutterheim, C. J. 1643, 2468 Stusser, F. 1837
Stutterheim, C. J. 1643, 2468
Stutterheim, I. M. 2468
Styczyńska, B. 1015
Styles, P. D. 2719
Suárez, M. F. 3227
Subba Rao, Y. 607
Subbarao, S. K. 2887, 3222
Subhashini, K. 1164
Sublette, J. E. 1252
Subra, R. 398
Subrahmanyam, D. 2625 Subrahmanyam, D. Subramanian 1522 Subramoniam, A. 2375 Sucharit, S. 2945 Suckcharoen, S. 221 Sudomo, M. 565, 1190

Sugar Planters' Association, Hawaii 1802 Sukaeri S. 1961 Sukhova, M. N. 2572 Sulaiman, I. 1786 Sulianti Saroso, J. Sulianti Saroso, J. 2801 Sultanov, M. A. 316 Summers, K. M. 192, 2195 Sun, C. N. 2924 Sundaram, R. M. 2599 Super, M. 621 Sur, S. 1845 Sureau, P. 1637, 2211, 2758 Surgeoner, G. A. 1742, 1743, 1822, 1915, 2060, 2064, 2614 2614 Suri, K. A. 1755 Suri, O. P. 1755 Suroso, T. 1554 Sustriayu, N. 565, 817, 1190, 1963, 3188 Sutcliffe, J. 1578 Sutchffe, J. 1578
Sutherland, B. 1610
Sutherst, R. W. 928,
Sutil O., E. 2061
Suto, C. 22, 547 928, 3079 Sutton, J. L. 1930 Suvorova, L. G. 977 2048 1446 Suya, T. B. Suzuki, A. Suzuki, H. 2230 Suzuki, T. 288, 983, 1423 Suzuki, Y. 1441 Suzuki, Y. 1441 Suzzoni-Blatger, J. 652 Sveshnikova, N. A. 330 Sviderskiř, V. L. 1486 Swarup, H. 3256 Sweeney, A. W. 1552 Swiderski, Z. 497 Swiss Society of Microbia 3307 Swiss Society of Microbiology 1565 Syaduk, V. F. 1380 Sylvester, N. K. 3377 Szabó, I. 2027, 2334 Székely, I. 1436

Szymański, S. 238 Szymanski, S. 238

Tabachnik, W. 399, 2630

Tabachnik, W. J. 126

Tabusa, R. S. 1802

Tachikawa, T. 3085

Tâcu, V. 75

Tada, I. 1584

Tadano, T. 379, 1787, 2905

Tadei, W. P. 2899

Tadkowski, T. M. 922

Taggi, F. 768, 2570

Takafuji, K. 603

Takahashi, M. 886, 2951

Takahashi, R. M. 79, 2925

Takahashi, S. 785

Takahashi, S. Y. 1734

Takaoka, H. 144

Takaoka, H. 144

Takaoka, M. 727, 3097

Takayanagi, H. 1167, 2540

Takigawa, T. 1988

Takken, W. 151, 438, 439, 1098, 1105, 2158, 2402, 3323 3323 3323
Tal'drik, A. A. 1718
Talybov, A. N. 355, 356, 969, 970, 2579
Tamar, D. Ben- 1087
Tamarina, N. A. 594
Tamura, S. 1446
Tanaka, I. 1584, 1585, 3312
Tang, Z. H. 2604
Tannahill, F. H. 457, 2169, 2434

2434

2434
Tanskul, P. 2809
Tao, K. H. 2246
Tapia, A. Martinez y 1463
Tapley, R. G. 1145, 2920
Taranik, K. T. 1057, 1074
Tarasenko, A. B. 3390
Tarasevich, I. V. 3399
Targa, H. J. 218
Tarimo, C. S. 1331, 1871
Tarras, M. S. 794
Tat, A. L. 519
Tavil, N. W. 1771
Tawfik, M. F. S. 3344, 3345

Tay, J. 352 Taylor, A. E. R. 1335 Taylor, A. M. 2162 Taylor, B. W. 622 Taylor, B. W. 622
Taylor, P. 1512
Taylor, S. A. 2074, 2914, 2944
Taylor, S. M. 946
Taze, Y. 873, 1088, 1315,
1323, 1324, 1699
Teasley, M. 2328
Techasena, S. 2815
Tej Singh 1175
Telford, S. R. 1962
Telford, S. R., Jr. 2478, 2479,
2775
Temizer, A. 3410 Temizer, A. 3410 Ten Houten, A. 1554, 1555, 1556 Tendeiro, J. 1495, 2566 Teng, B. 3099 Teng, K. F. 265, 972, 973, 1497

1497
Tenorio, J. M. 922
Tenquist, J. D. 1409
Teo Leng Hong 2816, 2817
Teodorescu, I. 453
Teplykh, V. S. 356
Terauds, A. 533, 1720
Teren, T. 1777
Terkin, I. F. 3330
Terracina, L. 3278
Terriere, L. C. 1371, 2712
Terteryan, A. E. 676, 3042
Terwedow, H. A. 3240
Tesh, R. B. 589, 844, 1773, 2134, 2628
Tešić, O. 3111
Teskey, H. J. 2587

2134, 2628
Tešić, O. 3111
Teskey, H. J. 2587
Tessier, C. 1818, 2958
Thakare, V. K. 898
Thanalukshumi, P. 513
Thatcher, D. R. 2192
Theis, J. H. 266, 267
Theobald, F. V. 108
Thevasagayam, E. S. 598
Thierry, R. 1654, 1955
Thomas, A. K. 1790
Thomas, A. W. 2197
Thomas, C. 2581
Thomas, H. H. 720
Thomas, P. J. 2788
Thomé, J. P. 225
Thompson, G. D. 256, 494, 975, 1640, 1935, 2739, 3071
Thompson, J. L. Cloudsley-1723
Thompson, J. M. 2167, 3367

Thompson, J. M. 2167, 3367 Thompson, K. C. 2466 Thompson, M. J. 2488 Thompson, P. H. 906, 907, 2167, 2431

10mpson, P. H. 906, 907, 2167, 2431
Thompson, R. C. A. 3104
Thompson, T. 751
Thomsen, E. 2704
Thornhill, R. 212
Thornhill, R. A. 332, 2010
Thorpe, A. 887, 2711
Thu, M. M. 1247
Tiam, H. 1304
Tibayrenc, M. 41, 53, 140
Tidwell, M. A. 638, 2156
Tieben, G. L. 509
Tika Ram, S. M. 3093
Tikhomirova, V. A. 686
Tikku, K. 1755
Tilkin, J. 1847
Till, W. M. 302
Tillyard, R. J. 3151
Tilmans, J. 1740
Timbal, J. 3200
Timchenko, G. A. 312

Timbal, J. 3200
Timchenko, G. A. 312
Timischl, W. 1106, 2985
Timisjärvi, J. 3008
Timm, R. M. 33
Timmer, J. 449
Timms, S. 2481, 2482
Timoney, P. J. 712
Tinelli, R. 2606
Tinker, M. E. 116
Tinsley, T. W. 525
Tipker, J. 1449
Tipton, V. J. 1750
Titova, L. M. 3263

Tobias, M. L. 1166 Todd, R. G. 626 Todorovic, R. A. 230 Tolman, J. H. 336 Toma, T. 1217, 2947 Tomich, F. Q. 922 Tominaga, M. 1988 Tonkal', T. E. 1034 Tonkal', T. E. 1034
Tonkyn, D. W. 1456
Tonn, R. J. 37, 561
Tontis, A. 471
Toohey, M. K. 412
Tooker, P. 2376
Topacio, T. M. 2804
Topacio, T. M., Jr. 2813
Toqir, G. 1541, 1775, 2915
Torales, G. J. 400
Tordi, M. P. 73
Torre, F. A. de la 1125
Torres Cañamares, F. 2941 Torres Cañamares, F. Torybaev, Kh. K. 3288 Tosca, A. 1576 Toschkoff, A. S. 262 Toshev, G. 2542 Toshev, G. 2542
Toulmond, A. 1731
Touraine, R. 1419
Touray, B. 1298, 1299
Toure, S. M. 1300, 1301
Tourneur, J. C. 1806
Tovey, E. R. 2489
Townsend, B. E. 1279, 1281
Townsend, L. H., Jr. 2703
Townson, H. 1786, 3314
Toyama, G. M. 480
Toyoda, M. 464
Tozer, R. S. 663
Tozer, W. 2086
Traub, R. 2305, 2306, 2307, 2311, 2321
Travassos da Rosa, A. P. A. Travassos da Rosa, A. P. A. 2627, 2655, 2656, 2898, 3224 Travassos da Rosa, J. F. 2656 Travassos da Rosa, J. F. S. 2655, 2898, 3224 Travassos Santos Dias, J. A 1404
Travissos Santos Dias, J. A.
1404
Travis, B. V. 141
Travland, L. B. 1237
Treherne, J. E. 1159
Trent, D. W. 1749, 2219
Trepte-Feuerborn, C. 475
Trepte, H. H. 475, 2184
Treverrow, N. L. 964
Treviño, G. S. 1640
Trewern, M. A. 2405, 2682
Tribe, M. 219
Trigo, F. 2221
Trimble, J. M. 3406
Trimble, R. M. 2123
Tripathi, C. P. M. 1355
Tripathi, C. P. M. 1355
Tripathi, H. L. 1347
Tripathi, R. K. 1347
Tripathi, R. K. 1347
Tripathi, R. K. 1347
Tripathi, V. A. 995
Trosper, J. H. 83, 3221
Trotti, G. Canestri- 12
Troubat, J. J. 1691 1404 Trotti, G. CanestriTroubat, J. J. 1691
Trouillet, J. 135, 136
Trpis, M. 60, 1231, 2036, 2631
Trukhan, M. M. 841
Trukhan, M. N. 411
Trusov, V. I. 1034
Trykhan, M. N. 1058
Trypanosomiasis Bureau of the
Ministry of Health, Mozambique 1307
Tsafrir, N. 257
Tsai, L. Y. 819, 2864
Tschinkel, W. R. 918
Tsetse Research Laboratory, Langford, United Kingdom 871, 3003 Tsubokura, M. 880 Tsuchiyama, A. 1216 Tsushima, K. 1441 Tsuyama, S. 186, 685, 2190, Tu, Y. F. 1667 Tukei, P. M. 1825 Tully, J. G. 3081 Tumlinson, J. H. 3058 Tumrasvin, W. 662

Tumurasvin, W. 2921 Tun, M. M. 1496, 1962, 2478, 2775 Tunstall, J. 2401 Tunstall, J. 2401
Turchenko, L. N. 1024
Turell, M. J. 615, 1784, 2082
Turkestani, A. 2535
Turnbull, A. L. 2000
Turnbull, I. F. 911, 1382
Turner, B. V. H. 1156
Turner, D. A. 1860, 1861, 1862, 3321
Turner, D. P. 133, 134, 636
Turner, E. C., Jr. 2703
Turner, K. J. 986, 987
Turrentine, J. D. Jr. 2347 Turner, K. J. 986, 987
Turrentine, J. D., Jr. 2347
Turturro, A. 1351
Tüzün, Y. 519
Tyagi, D. 2059, 2889
Tyndale-Biscoe, M. 2728
Tyrell, D. J. 118
Uchikawa, K. 505
Udayati 817
Ueba, N. 3286
Ueda, M. 2050
Ugueto, C. Escalante de 579
Uilenberg, G. 499, 1410, 222 Uilenberg, G. 499, 1410, 2225, 3060 3060 Ullerich, F. H. 159 Ulmanen, I. 702 Ulug, E. T. 835 Ulvesæter, H. O. 1424, 1425 Ul'yanov, K. N. 1548 Umezurike, G. M. 2210 Undeen, A. H. 1854, 2258, 3313 3313
Ungerman, G. 1488
Ungureanu, E. M. 95
United Kingdom, Agricultural
Research Council 2650
United Kingdom, Agricultural
Science Service 3048 United Kingdom, Edinburgh School of Agriculture 2761 United Kingdom, Tsetse Research Laboratory, Langford 871, 3003 United Nations Environment Programme 3327, 3328
United States Department of
Agriculture 495
Upper Volta, Centre de
Recherches sur les Trypanosomoses Animales 3004 3004
Ural, A. 519
Urazbaev, G. A. 3053
Urban, E. 800, 2851
Urbanelli, S. 72
Uribe, L. J. 116
Urquhart, G. M. 1298, 1299
Ursu, A. 453, 1895
Urtiz, T. M. Pérez 1129
Urvölgyi, J. 924, 1647, 3399
Usova, A. A. 3153
Usova, Z. V. 1023, 1055, 1059, 1076, 1079, 1080
Uspenskiĭ, I. V. 254, 721
Uzakov, U. Ya. 3330
Uzdenov, U. V. 1048
Vail, H. D. 3021
Vaile, M. 3277
Vaĭsblat, A. S. 1666
Vaitkevičius, G. G. 537 Ural, A. 519 Vaitkevičius, G. G. 537 Vaitkyavichene, G. B. 537, 541
Vařtkyavichyus, G. G. 537
Vakhabov, Z. F. 850
Vakhrusheva, Z. P. 1026
Vala, J. C. 1349
Valdez, R. 2750
Vale, G. A. 1881, 1882, 2997
Valente, D. 1160
Valentyuk, E. I. 1211, 2593
Valero López, A. 3117
Valla, M. E. 2965
Van Achterberg, C. 2275 Van Achterberg, C. 2275 Van Bronswijk, J. E. M. H. 734, 923, 2751, 3094 Van de Vrie, M. 931 Van den Assem, J. 2461

Van den Bosch, R. 1432 Van der Hammen, L. 1957 Van der Kaay, H. J. 2865 Van der Linde, T. C. de K. 2364 Van der Linden, M. E. Leegwater- 2984 Van der Linden, M. E. Leegwater- 1102
Van der Molen, J. N. 201
Van der Schaal, A. W. J. 201
Van der Vloedt, A. M. V. Van der Vloedt, A. M. V.
1103, 1875
Van Doesburg, P. H. 1017
Van Essen, F. W. 2042
Van Etten, J. 1313, 2685, 3000
Van Gerwen, A. C. M. 2702
Van Ham, M. 282
Van Hamdel, E. 91
Van Heemert, C. 754
Van Lennep, M. 1178
Van Neste, D. 512
Van Pletzen, R. 2364
Van Rensburg, L. 3082
Van Riper, C., III 1796
Van Schalkwyk, D. J. 621
Van Wettere, P. 2996
Vandamme, R. 3199
Vander Meer, R. K. 1388, 2829, 3058
Vankova, S. A. 157
Vansulin, S. A. 2409
Var Petersen, H. del 2431
Vargas, J. G. Palacios- 2243
Vargas, L. 2398
Vargas, M. 456
Vargas V., M. 141, 2154
Varis, A. L. 2797
Varma M. G. R. 1468 1103, 1875 2154
Varis, A. L. 2797
Varma, M. G. R. 1468
Varma, R. K. 32
Vashchenok, V. S. 359, 1
Vasil'eva, A. M. 1415
Vasil'eva, I. S. 255, 1399
Vasil'eva, V. S. 542
Vasjukova, T. T. 2567
Vasquez, A. M. de 2576 359, 1515 Vasjukova, T. T. 2567 Vasquez, A. M. de 2576 Vasudevan, T. 2926 Vasyukova, T. T. 2567 Vater, G. 1976 Vattier-Bernard, G. 136 Vaucelle, T. Duriez- 1666 Vaughan, J. A. 2324 Vauk, G. 956 Vecchi, M. 665 Vecher, L. F. 2178 Vecherkin, S. S. 1069 1669 Vecher, L. F. 2178 Vecherkin, S. S. 10 Veiga, L. A. 330 Velasco Cedano, M. 1069 Velijanov, D. K. 262 Veljanov, D. K. 262 Veljanov, D. K. 250 Venkatanarayana, M. 2599 Venkatesan, R. A. 988 Venkatesh, K. 1612, 3028 Venturoli, M. 12 Vercammen-Grandjean, P. H. 1660 Verchagina, V. V. Vereshchagin, S. M. 2845 Verreshchagin, S. M. 20 Verma, G. P. 664 Verma, G. S. 2352 Vermeulen, J. B. 1984 Vernet, G. 69 Véron, M. 2350 Verrier-Jones, E. R. 19 Vershinina, O. N. 10 Verves, Yu. G. 3337 Verves, Yu. G. Vervloet, D. 520 Vertler, R. S. 2493 Veysseyre, C. 1419 Vieira, A. M. 1202, 1203, 1204 1204 Vigne, N. 2185 Vigo, G. 581, 1711, 3297 Vijayalakshmi, S. 1169 Vijayan, C. P. 3270 Vikram Reddy, M. 1595 Viktorov-Nabokov, O. V. 1027, 1028, 1056 Villa, A. Covisa 129 Villar, M. I. P. de 35, 1745 Villarroel, F. 3176 Vindevogel, H. 1413

Vinson, J. W. 2320 Vinson, S. B. 1724, 2203, 2206, 3159 Vinzant, B. 751 Vipulakom, P. 724 Vipulatom, P. 724 Vissault, J. 49 Vissian, L. 1967 Vlayen, P. 1797 Vloedt, A. M. V. van der 1103, 1875 Voorazková, E. 514 Vockeroth, J. R. 2587 Vodenicharov, P. 2542 Vodenicharov, P. 2542 Vogt, K. 1912 Vogt, W. G. 164, 1909, 3035 Voigt, B. Sixl- 928, 932 Voigt, W. P. 272, 499 Volegova, K. V. 404 Volkov, V. I. 2735 Volkova, G. N. 1032 Volkova, N. S. 1075 Volkova, N. S. 1075 Vollhardt, Y. 132 Volmer, H. 2549 Von Ochssee, G. A. Boon 2982 2982 Vondracek, B. 2090 Vongtangswad, S. 60, 1231 Vorgetts, J., Jr. 2910 Vongtangswad, S. Vorgetts, J., Jr. 29 Vos, A. J. de 948 Voss, G. 1448 Votyakov, V. I. 31 Vrie, M. van de 9 Vythilingam, I. 18 Vythilingam, 1. 1800
Waage, J. 1170
Waage, J. K. 1632
Wada, A. Sakai- 790
Wada, E. M. 266, 267
Wada, Y. 99, 379, 1226, 1652, 3424, 3425 Wadano, A. 684, 3366 Wagner, G. G. 1640 Wagner, R. R. 525 Wahab, K. S. Abdel- 718 Wahab, K. S. E. Abdel- 2469, 2755 Waite Agricultural Research Institute, South Australia 3037 Waite, M. R. F. 835 Waitzbauer, J. 2768 Waladde, S. M. 3070 Walker, A. R. 3089 Walker, E. M. 941 3076 Walker, E. Iva.
Walker, G. P. 1611
Walker, J. M. 2728
Walker, R. J. 2842 Walker, J. M. 2728
Walker, R. J. 2842
Walker, T. W. 1193
Wall, B. J. 2175
Wall, W. J. 1906
Wallace, B. 1545
Wallace, H. G. 1245
Wallace, M. M. H. 2728
Waller, J. B. 2481
Walliker, D. 610
Walsh, J. F. 1581, 1704, 2152, 2672 2672 Walter, G. 956, 3391 Walter, P. 1392 Walter, S. D. 831 Walters, L. L. 1543, 2083, 3241 Walther, R. R. 52 Walton, D. W. 1496, 1962, 2478, 2479, 2775 Walzl, M. G. 2768 Wan, K. M. M. 835 Wan, K. M. M. 835
Wanchinga, D. M. 1115
Waner, J. L. 967
Wang, D. Q. 2231, 2245
Wang, F. Y. 1526
Wang, H. E. 361
Wang, J. 421, 868
Wang, J. B. 3100
Wang, S. F. 3161
Wang, T. C. 1365
Wang, Z. G. 1954
Wang, Z. G. 1954
Wang, Z. S. 1954
Wangberg, J. K. 481, 1628
Warberg, M. R. 1981
Ward, R. D. 1256, 1257, 1258, 2967 2967 Ware, G. W. 1987 Warnecke, M. 499

Warner, P. V. 1089 Warre, P. R. 2509 Warren, G. H. 173 Warren, M. 576, 843, 2896 Warren, McW. 834 Washino, R. K. 2073, 2115, 2415, 3203 Washio, H. M. 791 Wassef, H. Y. 241 Wassel, M. E. 3145 Watanabe, M. 1585 Waters, K. S. 258, 259, 260 Waters, R. S. 258, 259, 260 Watson, J. 1570 Watt, D. 2499 Wattal, B. L. 572, 606, 608, 609, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 2059, 2601, 2889, 3018 Watts, J. E. 171, 179, 193, 3039 Wayman, C. 3057 Weaver, J. S., III 2515 Weaver, R. J. 2009, 2844 Webb-Gebert, F. 3141 Webb-Gebert, F. 3141 Webb, P. M. 1761 Webb, S. 219 Weber, G. 264, 1394, 3077 Webster, J. M. 2610 Weems, H. V., Jr. 34 Wegler, R. 2262 Wegner, Z. 50 Wehrhahn, C. 1621, 3044 Weidhaas, D. E. 1763 Weill, J. 2779 Weintraub, J. 3333 Weisbroth, S. H. 296 Weiss, D. 1894 Weintraub, J. 3333
Weisbroth, S. H. 296
Weiss, D. 1894
Weiss, K. 2924
Weiss, M. 151, 1098
Weissman, D. 3353
Welch, H. E. 4, 864
Welch, H. M. 2378
Wellington, W. G. 2123
Wellman, S. E. 24, 25
Wellmer, H. 233
Wen, T. H. 996
Wendell S., J. 1132
Wenk, P. 2327, 2668
Werner, Y. 292
Wernsdorfer, W. 3194
Werren, J. H. 208
Werren, J. H. 208
Wery, M. 1847
Westoby, M. 2410
Westwood, A. R. 3311
Wettere, P. van 2996
Wettstein, K. 756
Wetzel, H. 645, 1104, 2406
Whaler, B. C. 1929
Wharton, R. H. 959
Whisler, H. C. 1237
Whitaker, J. O. 3096
Whitaker, J. 7. 289, 509, 1966, 2236, 2249, 3145
Whitcomb, R. F. 3081
White, C. P. 1195
White, S. L. 1607
White, T. R. 2515
Whitford, W. G. 2729
Whitlaw, J. T., Jr. 2020
Whitney, W. K. 756
Whitten, C. J. 2429
Whitten, M. J. 2199, 2202
WHO Expert Committee on
Vector Biology and Control 526 Vector Biology and Control Wicher, K. 1386 Wickremesinghe, R. S. B. 1812
Wieczorek, H. 910
Wiedenmann, G. 1168
Wigglesworth, Sir V. B. 1725
Wigglesworth, V. B. 1159,
1725, 2835, 2861, 3150
Wikel, S. K. 3067
Wilder, W. H. 79
Wildey, K. B. 486, 1140, 3057
Wildey, I. A. 1750
Wilhelmsen, C. 296
Wilke, M. 1016
Wilkes, J. 1509 1812

Wilkes, T. J. 1769, 2149, 2363, 2874 Wilkie, J. S. 889 Wilkins, C. A. 2248 Wilkins, D. B. 2026 Wilkinson, F. C. 2563 Wilkinson, P. R. 954 Wilkinson, F. R. 934 Willadsen, P. 952, 960, 1395 Williams, C. V. F. 1979 Williams, D. 376 Williams, D. F. 482, 1090, 2725, 3352 Williams, D. J. 914 Williams, G. E. Williams, H. J. 2407 2203 Williams, J. E. Williams, J. M. Williams, J. O. Williams, J. R. 2317 2168 561 2824 Williams, J. S. 1979 Williams, K. L. 270 Williams, M. A. 533 Williams, M. C. 204 2702 533, 1720 2043 3066 Williams, M. S. 3066
Williams, P. 2491, 3185
Williams, P. 2491, 3185
Williams, R. E. 2407, 3012
Williams, R. W. 2922
Williams, S. C. 1676
Williamson, D. L. 1089, 3081
Willis, N. L. 450, 3370
Willis, O. R. 377
Wilps, H. 3026
Wilson, A. J. 938, 961
Wilson, B. H. 2440
Wilson, E. O. 2725
Wilson, J. L. 3068
Wilson, J. L. 3068
Wilson, N. 737, 1187, 2001, 2303, 2463, 2584
Windmill, D. M. 3029 Williams, M. S. Windmill, D. M. 3029 Wiroreno, W. 2807, 2819 Wirth, W. W. 131, 1252 Wirtz, R. A. 319, 2347, 2828, 3249 Wiśniewski, J. 1655
Wisnivesky-Colli, C. 1506
Wisseman, C. L., Jr. 2321
Witkowski, J. A. 348
Wittmer, W. 2526
Woeltjes, A. G. 1002
Woeltjes, A. G. W. 1001
Wolda, H. 2078
Wolf, A. de 1593
Wong, T. L. 107
Wongchari, V. 2331
Woo, P. T. K. 2863
Woo, S. L. 1442
Wood, D. H. 46 Wiśniewski, J. 1655 Wood, D. H. 46 Wood, D. M. 1533, 2587 Wood, E. 35 Wood, E. J. 1745 Wood, E. J. 1/45 Wood, G. M. 1395 Wood, M. R. 2008 Wood, R. J. 1546, 2378, 2960 Woodall, J. P. 3246 Woodard, A. G. 2933, 3254 Woodard, D. B. 1463, 1464 Woodburn, T. L. 164, 1909, 3035 Woodford, P. J. Woodroofe, G. M. 2033 Woods, D. R. 2168 World Health Organization 526, 3128 Wortmann, F. 3383 Wortmann, F. 3383 Wotton, R. S. 1577 Wragg, T. E. 2091 Wraight, S. P. 1531 Wright, F. C. 998, 2486, 2487, 2488 Wright, J. E. 2438 Wright, R. E. 908, 1899, 2060, 3015 3015 Wright, R. H. 389 Wu, H. Y. 2864 Wu, R. 1188 Wu, W. C. 2864 Wunderer, H. 2714 Wurtsbaugh, W. 2092 Wurtsbaugh, W. A. 2090 Wygodzinsky, P. 1846 Wypych, J. 1386, 1634 Xavier, S. H. 1016, 2049, 2072

Xiangxiong, Zh. 407 Xie, B. Q. 569, 570, 3180 Xu, R. M. 215 Yablonskaya, V. A. Yadav, M. P. 2748 3399 Yadava, P. S. 1931 Yadava, R. L. 103 Yago, A. 3097 Yagodin, S. V. 21, 1163, 1486 Yajima, T. 317, 2796 Yakuba, V. N. 359 Yakunin, B. M. 815 Yamagata, Y. 1585 Yamamoto, I. 1437 Yamamoto, I. 1437 Yamamoto, S. 3108 Yamamura, T. 1446 Yamanishi, H. 85 Yamaura, I. 891, 1904 Yamov, V. Z. 1590, 2689, 3330 Yamura, T. 3108 Yan, X. C. 818 Yaneva, V. A. 1659, 1664 Yan, X. C. 818
Yaneva, V. A. 1659, 1664
Yáñez, I. E. Canales 1125
Yáñez, Y. García 352
Yang, G. R. 293, 996, 1667
Yang, M. L. 1954
Yarbrough, J. D. 3129
Yaroslavisev, V. P. 3330
Yarullova, R. A. 1042
Yasuda, M. 1450
Yates, W. E. 2271
Yatham, N. R. 1914
Yazdanpanah, H. 2911
Yekutiel, P. 2285
Yen, L. T. My- 3424, 3425
Yeramian, M. A. 476, 2721
Yevenes, I. 523
Yokohari, F. 2843
Yonekura, M. 891, 1904, 2450
Yoneyama, Y. 1379, 3022
Yong, H. S. 625, 3274
Yoshida, M. 3286
Yoshida, T. 2462
Yoshikawa, H. 1440
Yoshioka, H. 1441
Youldegwei A. 1321 Yoshikawa, H. 1450 Yoshioka, H. 1441 Youdeowei, A. 1321 Youdeowei, Y. 1099 Younce, L. C. 2096 Young, A. S. 276, 499, 709, 2474, 3075, 3089 Young, C. J. 133, 134 Young, D. G. 2390, 2661 Young, E. R. 277 Young, E. R. 277
Youngson, J. H. A. M. 2378
Youssef, M. 2776
Yu, C. H. 1738
Yu, H. 1728, 1729
Yu, S. J. 1371
Yu, Z. Z. 293, 996, 1667, 2246
Yudaev, O. N. 1066
Yudin, B. S. 3184
Yudina, S. A. 3184
Yun, Y. H. 1728
Yunginger, J. W. 1389, 1933, 2455
Yunker, C. E. 2238, 3081 Yunker, C. E. 2238, 3081 Yurgenson, I. A. 356, 1519 Zachary, D. 2180 Zagniborodova, E. N. 571, 1518 Zagretdinov, R. G. 1594 Zahar, A. R. 420 Zaim, M. 2368 Zaini, A. 2911 Zajac, A. 1979 Zaka-ur-Rab, M. 859, 1354 Zakharieva-Stoilova, B. Zakour, L. Ben-2255
Zalar, G. L. 52
Zalom, F. G. 2101
Zambia, Department of
Veterinary and Tsetse
Control Services 1308, 1333 Zanforlin, M. 823, 2179 Zanin, E. 10 Zapata Mata, R. 1461 Zapatero Ramos, L. M. 243
Zareh, N. 2410
Zarrouk, K. 2251, 2255
Zebold, S. L. 1237
Zeev, M. Bar- 39

Zeledon, R. 1344, Zeledon, R. 1344, 3138
Zennyoji, K. 2846
Zenoble, R. D. 1978
Zerba, E. N. 35, 1745, 3169
Zerbo, D. G. 1704
Zhang, X. Z. 213
Zhang, Z. Y. 2604
Zhantiev, R. D. 594
Zhao, S. X. 1668, 2247
Zhdanova, T. G. 1024
Zhekov, N. G. 902
Zheng, H. 2140
Zheng, S. C. 421
Zhenlian, L. 407
Zhifu, C. 407
Zhitova, E. A. 2745
Zhong, C. 2140
Zhou, Z. Y. 1954
Zhovtyĭ, I. F. 1026,
2318 3138 2318 Zhuang, P. J. 2604 Zhubanazarov, I. Zh. 1516 Zid, S. A. Abou 562 Zidar, J. A. 1118, 1119, 1120, 1121, 3147, 3148 Zielke, E. 409, 605, 1794, Ziese, D. 780 Zill, S. N. 2547 Zimbabwe, Agricultural Research Council 1405 Zimbabwe, Secretary for Health 2006 2006
Zimmerman, J. H. 3059
Zimmerman, R. H. 1529
Zimmermann, E. M. 193
Zinov'eva, K. B. 894
Ziprin, R. L. 2764
Zitek, K. 514
Ziv, M. 290
Zivković, V. 137
Zlotkin, E. 200
Zlotorzycka, J. 2851 1933 Zlotkin, E. 200
Zlotorzycka, J. 2851
Zoebelein, G. 1014
Zohdy, N. Z. 476, 2721
Zombori, L. 2512
Zomer, E. 2047
Zorka, T. J. 2432
Zorzopulos, J. 2217
Zuk, P. 1671
Zulu, F. P. 249
Zulueta, J. de 617
Zumpt, F. 2537
Župančičová, M. 924, 9:
Zuffüh, R. 3436
Žutić. M. 237 924, 932 Zurflüh, R. 343 Žutić, M. 237 Zwart, D. 1410 Zweig, G. 2260 Zwick, H. 3315

SUBJECT INDEX

The subject indexes of the Review of Applied Entomology not only provide for detailed manual searches under a wide variety of headings, but also provide a wide variety of standardised terms for use in computer-assisted searches of the CAB database. The most detailed entries are those under the names of arthropods, but other organisms, countries, chemicals, habitats and general subjects (e.g. Biological control; Irrigation; Light-traps; Pasture management; Reviews) are also used as headings. Index headings are not selected from any one thesaurus, but fairly strict vocabulary control is achieved by careful checking of systematic names of organisms and chemicals, by adhering to CAB standards for pest-control chemicals and pharmaceuticals, and by selecting most other index headings to conform with other CAB abstract journals or with Chemical Abstracts or Index Medicus. All references are to abstract numbers.

Under the names of arthropods there are references to their control, distribution, hosts, natural enemies, taxonomy, vector ability and miscellaneous subjects. Entries for species will be found under the generic name, and there are also inverted names with the specific and subspecific epithets placed first. The names used for arthropods in this index are those used in the abstracts, because these names have all been checked against the card indexes maintained by the Institute. These card indexes are continuously updated to take account of taxonomic revisions, and in cases of difficulty the taxonomists employed by the Institute or by the British Museum (Natural History) are consulted. If two or more names are accepted by the Review for a taxon during one year, each name is entered separately, with a 'see also' cross-reference to other names. Cross-references from names used by authors but not accepted by the Review are given to the currently-accepted names.

Animals other than arthropods are indexed to specific level only, under English common names for the more important domesticated birds and mammals, or under scientific names. At both these types of heading will be found references to the arthropods that affect the animal concerned, to arthropod-transmitted pathogens, and the side-effects of pesticides. Cross-references are given between common names (sometimes inverted) and scientific names.

Plants are indexed under English common names of the more important or familiar crops, or under scientific names down to species level. At both these types of heading will be found references to the arthropods connected with the plants concerned. Cross-references are given between common names (sometimes inverted) and scientific names.

Pathogens of animals other than arthropods are indexed under the name of the pathogen, the scientific name if one is available, or else the English common name. Some entries will also be found at the names of diseases (sometimes inverted). Viruses pathogenic for arthropods are indexed under the name of the host, and the hosts are listed at the heading 'Viruses and virus diseases'. Other pathogens of arthropods are indexed under the scientific name of the pathogen. As an aid to locating all the information concerning annelids, bacteria, cnidarians, fungi, helminths, molluscs and protozoans, an entry has been made for each relevant abstract at the name of either a phylum or a class.

Geographical locations are keyworded, as appropriate, to faunal regions, continents, countries, archipelagoes or islands, and (for Australia, Canada and the USA) to States, Provinces or Territories. The subheadings refer mainly to pest arthropods, with some references to pest control and diseases.

Chemicals are normally indexed under either a common name or a systematic name, but a few unidentified or complex substances are indexed under names used by authors. The majority of the common names used for chemicals for the control of arthropod pests are listed on pp. 7-10 of RAE volume 68, and in addition, other common names stated in the 6th. edition of the Pesticide Manual (noticed in RAE/B 68, 2032) to have been adopted by BSI, ISO or ANSI are now used. Common names of herbicides and plant growth regulators listed in recent issues of Weed Abstracts are now used in RAE, and so are the common names of other pesticides (including anthelmintics, fungicides and rodenticides) given in the Pesticide Manual. International Nonproprietary Names approved by the World Health Organization are also now used in RAE. Most substances without approved common names are indexed under the names used in the indexes of Chemical Abstracts volumes 86-95. Cross-references are provided to these inverted systematic names, and in some cases synonyms are given with the entries. Cross-references are also provided from inverted systematic names to many of the common names, and definitions are printed at these headings.

Medical, immunological and veterinary headings are normally selected from Medical Subject Headings.

Habitat headings are chosen, whenever possible, beginning with the name of a vertebrate (e.g. Cattle housing; Pig housing) or of a crop (e.g. Coffee plantations, Rice-fields), though most appropriate stands of trees are indexed under 'Forests' or 'Woodland'. In most other cases, inverted names are selected as headings (e.g. Lakes, recreational; Bogs, alder; Pastures, irrigated). Subheadings are mostly concerned with the distribution of arthropods and the non-target effects of pest control.

SUBJECT INDEX

ABA (see Abscisic acid)	Acarus siro contd.	adamesi, Culex
abactor, Tabanus Abate (see Temephos)	in cattle feed, effects of 1662	adenensis, Anopheles culicifacies (see A.
Abattoirs	on man, role in colitis of 980	culicifacies)
Cochliomyia macellaria in, in Brazil 479	Acephate (O,S-dimethyl acetylphosphoramidothioate)	Adenine (see 1H-Purin-6-amine) Adenine phosphoribosyltransferase (see
Diptera in, in Yugoslavia 901	against, Musca domestica 1893	Phosphoribosyltransferase, adenine)
Musca domestica in, in Brazil 479 Ophyra aenescens in, in Brazil 479	Acetamide, N-butyl-N-phenyl-, with 2-butyl-	Adenosine
abchazicus, Culicoides	2-ethyl-1,3-propanediol, and phenylmethyl benzoate, repellent for,	in Musca domestica, effects on pupariation of 188
abdominalis, Camponotus	Amblyomma americanum, on man	cyclic 3',5'-(hydrogen phosphate), in
abdominalis, Tabanus aberrans, Chrysops	1937	Periplaneta americana, increasing
Abortion, in cattle, caused by Trypanosoma	Acetamide, N-[2-(3,4-dihydroxyphenyl)e- thyl]-	phosphorylase activity in hind-gut 336
1298 Abscess	in Aedes aegypti, inhibiting DOPA	Adenosine 5'-(tetrahydrogen triphosphate)
in rabbit, caused by Hyalomma	decarboxylase 1761	diet component for, Glossina palpalis
impressum 1939	in Lucilia cuprina overcoming effects of DOPA	645, 1104 in <i>Aedes aegypti</i> , dependence of
in sheep, caused by <i>Hyalomma impressum</i> 1939	decarboxylase inhibitors 1382	methenyltetrahydrofolate synthetase
Abscisic acid, in Sarcophaga bullata,	overcoming effects of methyldopa on	activity on 838
inhibiting vitellogenesis 3360	larval cuticle 911 in <i>Periplaneta americana</i> nervous system	Xenopsylla cheopis feeding responses to 2326
abserratus, Aedes Abstinons	2548 .	adersi, Simulium
in Glossina morsitans	Acetamide, 2-fluoro-, in Musca domestica,	adisi, Trichillum adjunctus, Cimex
mating inhibition by 3324	diflubenzuron delaying toxic effects of 1892	Adlerius, taxonomy of 869
receptors for 3325 in Musca domestica	Acetamide, 2-[(4-methoxyphenyl)methoxy]-	Adrenal cortex hormones, in man, not
mating inhibition by 3324	N,N-dipropyl-, repellent for, Panstrongylus megistus, on rat 39	affecting hypersensitivity to <i>Triatoma</i> infestans 3167
receptors for 3325	Acetamide, thio- (see Ethanethioamide)	adustus, Ceratophyllus
AC-217300 (see 2(1H)-Pyrimidinone, tetrahydro-5,5-dimethyl-, [3-[4-	Acetic acid	advena, Crabro
(trifluoromethyl)phenyl]-1-[2-[4-	Cochliomyia hominivorax responses to 1896	advenarius, Ceratophyllus (see Megabothris advenarius)
(trifluoromethyl)phenyl]ethenyl]-2- propenylidene]hydrazone)	Culex oviposition responses to 1209	advenarius, Megabothris (Ceratophyllus)
AC-222705 (see Benzeneacetic acid, 4-	in Cochliomyia macellaria, glutamate	Aedeomyia squamipennis
(difluoromethoxy)- α -(1-methylethyl)-,	product during anaerobic metabolism 1359	Gamboa viruses in in Argentina 2629
cyano(3-phenoxyphenyl)methyl ester, (S) -)	repellent for	in Ecuador 2629
acanthina, Neopsylla	Muscidae 1881	in Panama 2629
Acanthocephala 3147	Stomoxyinae 1881 Acetic acid, (diethylamino)oxo-, C ₆ -C ₈ alkyl	in Argentina 2629 in Ecuador 2629
Acanthocephalans, index-catalogue 3147 Acanthocera, genitalia in 463	esters, repellent for, Hypoderma spp., on	in Panama 2629
Acanthocera coarctata	cattle 2689 Acetone (see 2-Propanone)	Aedes antibiotics in, toxicity of 1056
descriptions of 463 in Brazil 463	Acetylcholine (see Ethanaminium, 2-	arboviruses in, transmission of 1826
in Paraguay 463	(acetyloxy)-N,N,N-trimethyl-)	Cache Valley virus in, in New York State
Acanthocera exstincta	Acetylcholinesterase (see Esterase, acetyl choline)	3246 control of 3203
descriptions of 463 in Argentina 463	Acetylglucosaminidase, in Stomoxys	biological 1537, 2088, 2346
Acanthocyclops vernalis	calcitrans 3030	genetic 3140
Coelomomyces spp. in 394	Acetylglucosaminidase, β-, in Musca domestica head, activity pattern of 460	integrated 2121 Culicimermis schakhovii in, in Ukraine
C. dodgei in, production of 611 C. psorophorae in, culturing of 1237	Acetylglucosaminyltransferase, chitin-uridine	1025
preying on, Romanomermis culicivorax	diphosphate in Stomoxys calcitrans	electrophoresis for studying 70 evolutionary cytogenetics of 1547
3244 Acanthophthirius polonicus	characterisation of 1901	fungi in
descriptions of 734	not inhibited by insect growth	in Ukraine 1757
in Netherlands 734	regulators 3032 Acheta domesticus	in USSR 1019 in Argentina 400
on Myotis dasycneme, in Netherlands 734	antennae in, sensilla on 548	in Azerbaijan 852
acanthopus, Hoplopleura	control of, inert dusts for 3126 sterilisation of, chemosterilants for 673	in Canada 1533 in Canary Islands 2071
in Agelaius phoeniceus nests, in Manitoba	Achlya hypogyna, in, Culicidae, in USSR	in Cuba 849
864	1019	in Finland 2957
in cattle-dung fertilizer, in Irish Republic	Acid phosphatase (see Phosphatase, acid) acinaciseta, Radfordia	in Hokkaido 603 in Kurile Islands 1760
on Agelaius phoeniceus, in North	Aclista alticollis	in Nigeria 602
America 4	in Romania 453 parasitising	in Oriental region 575 in Quebec 2881
on man, hypersensitivity to 319	Calliphora spp., in Romania 453	in Sakhalin Island 1760
on rat, in Poland 50 on rodents, in Hawaii 922	Lucilia sericata, in Romania 453	in South Africa 1248
on small mammals, in Czechoslovakia	Piophila casei, in Romania 453 aconitus, Anopheles	in Soviet Maritime Territory 3264 in Spain 2941
933 overwintering of, in birds' nests 2005	Acorus calamus, insecticidal activity of	in Ūkraine 1024
preparations of, remounting of 2485	extracts of 1561 Acridodea, in Bermuda, book 792	in USA 3209 in USSR 1548
Acaricide resistance, in vectors 2286	Acriflavine, in cattle, effects on infectivity of	in forests, in Belorussia 1058
Acaricides evaluating of 974, 1406	Babesia to ticks of 1069	in irrigated pastures, in California 2088
substances tested as:	Acrocomia, Rhodnius prolixus in, in Venezuela 37	in pools, productivity of 2958 in reservoir lakes, in Tuva ASSR 2588
avermectins 2248 cupronaphthe 955	Actellic (see Pirimiphos-methyl)	in rice-fields, in California 3203
naphthenates 955	Actinomycin D (see Dactinomycin)	in water containers, in Nigeria 2895
secondary amines 2488	Aculeata, in British Isles 691 acuminata, Hybomitra	in wildlife areas, in California 2121 in woodland, vertical distribution of
straight-chain dimethylamines and dimethylamides 998	acuscutellaris, Blankaartia	1212
tertiary amines 2488	acutangula, Coproica (see Leptocera acutangula)	Japanese encephalitis, virus in, in China 1827
Acarology, glossary 1957 Acarus siro	acutangula, Leptocera (Coproica)	larvae of, distinguishing instars of 2611
antigens of 1669	acutascuta, Walchia	larval development in, effects of sodium
in Romania 980	Acyrthosiphon pisum, control of, insecticides for 2507	chloride on 3231 mating in 1766

Aedes aegypti contd. Aedes aegypti contd. Aedes contd. Microsporida in, in Ukraine 1025 in Indonesia 1555 Vavraia culicis in, infectivity of 2891 parasitised by, water mites, in Quebec in Kenya 2365, 2876 vitellogenesis in, hormonal regulation of in Malaysia 1245, 1800 3268 2354 in Nigeria 602, 1194, 1230, 2895 in Puerto Rico 2136, 3247 predators of 2931 detecting of 1482, 1483 vitellogenins in, regulation of synthesis of in Seychelles 1825 West Nile virus in, replication of 89 Saint Louis encephalitis, virus in, in Brazil in Taiwan 1215 Wuchereria bancrofti in morphology of 605 uptake from man of 2589 in Thailand 82 seasonal abundance of 2957 in Tokelau Islands taxonomy of, isoenzymes as characters for in Upper Volta 1714 in USA 65, 2133 in Venezuela 2643 vellow fever tracheoles in 2835

Aedes abserratus, Romanomermis nielseni
in, pathogenicity of 1817 virus in estimating infection rate with 831 in Gambia 2037, 2038
replication of 2637
transmission of 2637
Aedes aegypti × A. mascarensis 593
Aedes aegypti aegypti in cassava fermentation pools, in Nigeria Aedes aegypti
accessory glands in
nucleic acid synthesis in 2602
protein synthesis in 2602 in cemeteries, in Puerto Rico 3247 in cemetery vases, in Venezuela 2643 in dwellings, in West Malaysia 1800 in flower vases, in Fiji 412 in forest clearings, in Nigeria 1 in plant containers, in Fiji 412 in teak plantations, in Nigeria in tree holes, in Kenya 2876 genetic variation in habitats of 1234 399 a-amanitin in, preventing digestion of blood-meals 1527 1194 Aedes aegypti formosus genetic variation in 399 habitats of 1234 amino acids in, not affected by polluted water 3273
antennae in, sensilla on 827
Ascocystis culicis in, in Taiwan 1215
attractants for 1525 1194 in tyres Aedes africanus in Fiji 412 biology of 1112 Bacillus sphaericus in, pathogenicity of, effects of larval behaviour on 3260 in Florida 65 chikungunya virus in, in Central African in water containers, in Nigeria 2895 Republic 2066 in Central African Republic 2066, 3295 in Nigeria 1194, 1230, 2895, 2918, 2919 in Uganda 1112 juvenile hormones in, regulation of activity of 2062 life tables for 2644 B. thuringiensis in, effects of age on susceptibility to 2042 susceptibility to 2042
blood-meals in, digestion of 3196
breeding places of 602, 1800
Breinlia booliati in, effects on adipose
tissue of 59
Brugia malayi in, infectivity of 2036
B. pahangi in, infectivity of 2036
chikungunya virus in, transmission of malathion resistance in, in Puerto Rico in forest clearings, in Nigeria 1194 in gallery forests, in Central African Republic 2066 2136 male terminalia in 859 marking of, radiophosphorus for 3294 meiotic drive in, polymorphism for modifiers of 2959 in teak plantations, in Nigeria 1194 in water containers, in Nigeria 2895 on man, in Nigeria 1230 oviposition in 1230 yellow fever, virus in, in Central African Republic 3295 Aedes alboniveus, in China 2605 Aedes laboniveus, in China 2605 mid-gut in Coelomomyces psorophorae in, not infective 1237 control of 82, 2285 biological 118, 1228, 1247, 1711, 2042, 2084, 2622, 3250 digestive cycle and ribosomes in 842 effects of blood-meals on 1527 moulting hormones in activity pattern of 2595 effects on ovarian development of 408 Murray Valley encephalitis, virus in, transovarial transmission of 1840 2084, 2025, 3230 eliminating breeding places for 115 genetic 2365 growth regulators for 1453, 1555, 1710, 1810, 1986, 1988, 2829 insecticides for 115, 116, 412, 1245, 1438, 1714, 1763, 1810, 2133, 2355, Aedes albopictus
arboviruses in, infectivity of 1524 Newcastle disease, virus in, infectivity of Ascocystis taiwanensis in, in Taiwan 1215 brown-eye mutant of 379 cell cultures from 1526, 1997 nitrogen excretion in, regulation of 2076 nutrition of 2608, 2817 olfactory system in, evolution of 3132 2640, 2816, 2817, 2879, 2886, 2920, arbovirus isolation in 2950 3247 on man changes in 3287 in Gambia 393
in Nigeria 1230
in Thailand 82
not affected by cystic fibrosis 621
Onchocerca gutturosa in, production of incorporation of labelled metabolites into 1568 manual 3205 mucilaginous seeds for 2601 repellents for 1525, 1813, 2347, 2374 sanitation for 412 pH variation in 1566 chikungunya virus in mutants of 836 transmission of 1246 DDT in, uptake and metabolism of 2960 DDT resistance in, mechanisms of 2960 585 dengue virus in ovarian development in, regulation of Coelomomyces stegomyiae in, in Taiwan replication of 85 transmission of 82, 115, 390, 2130 2031 ovaries in, proteins in 91 control of 82 growth regulators for 1556 insecticides for 1245, 2817 oviposition attractants for 1759 densonucleosis virus in effects of 105 storage of 3192 descriptions of 575 development in, dehydrogenase activity during 2034 aquatic-plant extracts as 235 oviposition deterrents for 1209 2355 dengue virus in in Seychelles aquatic-plant extracts as 2355
plant extracts as 2618

Plasmodium gallinaceum in, development
of 2624, 3196 1825 infectivity of 1526, 2883 transmission of 82, 115 genetics of 2817 developmental abnormalities in, preyed on by

Libellula spp., in Burma Getah virus in chromosome markers for replication of 89 China digestive enzymes in 1527 Notonecta glauca 1223 N. maculata 1223 Dipetalonema dessetae in, effects on adipose tissue of 59 in China 2349 in Cuna 2349
in Indonesia 1556
in Japan 2947
in Malaysia 1245, 1800
in Philippines 856
in Santa Cruz Islands 1
in Seychelles 1825 Pimephales promelas 2936 Toxorhynchites spp. 2044 Dirofilaria immitis in, infectivity of, genetics of 1786 D. repens in, utilisation of host constituents by 101 T. rutilus 1756 in Florida 65 eggs of, tanning in ovaries of 2603 enzymes in 73, 101, 126, 399, 838, 842, 1761, 2034, 2076, 3262, 3291 in gravid and non-gravid virgins 592 rearing of, diets for 2608 regional origin of, enzyme markers for in Solomon Islands Rift Valley fever, virus in, transmission of in Taiwan 1215, 2031 excreta of, determination of uric acid and 2139 in Thailand 82 hematin in 1564 Romanomermis culicivorax in, culturing in USA (Hawaii) 1796 female polygamy in, relation of of 3206 Inkoo virus in, persistent infection with 1839 R. nielseni in, rearing of 1817 seasonal abundance of 65, 412 sex ratio in, distortion of 1546, 2378 short-wing mutant of 826 gonotrophic activity and 2922 Japanese encephalitis, virus in, isolating of 2032, 3286 genetic variation in 399 genetic variation in 399
genetics of 2817
Getah virus in, replication of 89
in Burma 1247
in Canary Islands, eradication of 2071
in China 2349
in Colombia 116
in Fiii 412 Kunjin virus in, inhibiting development sibling crosses as affecting 2644
Sindbis virus in, transmission of 1471 Newcastle disease, virus in, infectivity of sterilisation of, chemosterilants for 1755 surveillance of 2133 traps for 2133 Nodamura virus in, pathogenicity of in Fiji 412 Trypanosoma hedricki in, not developing 2863 in French Guiana 1154 nutrition of 2817 in Gambia 393, 2037, 2038 in India 2640 on man

tyrosine in, metabolism of 2047

in Hawaii 1796

Andes albaniatus contd	Andes contant contd	Andre detritue contd
Aedes albopictus contd.	Aedes cantans contd.	Aedes detritus contd.
on man contd.	in Czechoslovakia 387, 2942	in France 58, 2954, 3265, 3297
in Thailand 82	in German Federal Republic 1250	in Italy 2937
Ross River virus in, persistent infection	in USSR 841, 1079	in UK 2381
with, polypeptide synthesis during	in floodland forests, in Belorussia 841	in tree holes, in France 3297
establishment of 582	in river floodplains, in Belorussia 841	complex of, fecundity in, effects of larval
Saint Louis encephalitis, virus in,	group of, oviposition sites of 2591	diet on 368
	Aedes cantator	Aedes diantaeus
transovarial transmission of 1784		
San Angelo virus in	cytoplasmic polyhedrosis virus in, in	flight sounds in 594
infection of ovarioles with 2628	Connecticut 2893	Hydromermis spp. in, in Kazakhstan 88
transovarial transmission of 844, 2134	in USA 2893	in USSR 88, 1548
Semliki Forest virus in	Romanomermis nielseni in, development	Johnston's organs in, sound reception by
cell fusion induced by 114	of 1817	594
effects of pH on 1567	Aedes caspius	Aedes dorsalis
pathogenicity of 1569	breeding places of 403	autogeny in 2052
	orccaring places of 405	
persistent infection with 2639	control of 2954, 3265	California encephalitis
polypeptide synthesis during	biological 1711, 3298	virus in
establishment of 582	growth regulators for 1710	effects on CO ₂ susceptibility of 615
replication of 2376, 2639	insecticides for 2886	transovarial transmission of 2082
subviral particles from 113	dominant lethals in, induced by γ -	control of
Sindbis virus in	irradiation 2634	biological 397, 2087
defective-interfering particles of 835	egg-hatch in, effects of dissolved oxygen	insecticides for 3210
	on 55	
factor antagonistic to 1838		water management for 1782
interference in 2961	gonads in, effects of γ-irradiation on	diapause in 2939
persistence of 2961	2636	in France 2052
Uukuniemi virus in, persistent infection	in Czechoslovakia 1560	in USA 1782, 1790, 2052, 2087, 3204,
with 1839	in France 2954, 3265	3212
vesicular stomatitis virus in	in USSR 403, 3263	in USSR 2594
defective interfering particles of 1834	larval diet of 3263	in salt marshes, in California 1782, 2087
replication of 1835	mating competitiveness in, effects of γ -	insecticide resistance in, in Utah 3212
West Nile virus in	irradiation on 2635	oviposition sites of 2591
infectivity of 1526	mating flight in 822	phenology of 2594
replication of 89	population dynamics of 403	Saint Louis encephalitis, virus in, not
White-body mutant of 379	Tahyňa virus in, in Czechoslovakia 1560	transmitted transovarially 1784
Aedes alcasidi	Aedes caspius dorsalis (see A. dorsalis)	Aedes epactius
Ascocystis armigerei in, development of	Aedes cataphylla	control of, biological 1829
1215	Amblyospora opacita in, pathogenicity of	gene transfer to A. atropalpus from 1195
A. lanyuensis in	402	
		mid-gut in, pH in 63
development of 1215	in USSR 2588	nuclear polyhedrosis virus in,
in Taiwan 1215	in reservoir lakes, in Tuva ASSR 2588	pathogenicity of, age-related changes
Coelomomyces macleayae in, in Taiwan	Aedes cinereus	in 63
2031	control of, repellents for 3230	Romanomermis nielseni in, not infective
in Taiwan 1215, 2031	flight sounds in 594	1817
Aedes atropalpus	in Canada 2881	Saint Louis encephalitis, virus in,
in USA 3251	in Czechoslovakia 3230	transovarial transmission of 1784
in tyres	in USA 1805	Aedes epactius × A. atropalpus
in Indiana 3251	in USSR 1548	autogeny in 2595
in Ohio 3251	on cattle, in Czechoslovakia 3230	moulting hormones in, activity pattern of
mid-gut in, pH in 63	oviposition sites of 2591	2595
moulting hormones in 125	complex of 2073	Aedes euedes, control of, insecticides for
activity pattern of 2595	Aedes cinereus hemiteleus, taxonomy of	1822
ovarian development in	2073	Aedes excrucians
hormonal induction of 2598	Aedes communis	Ascocystis culicis in, in Ukraine 2590
		breeding places of 3271
hormonal regulation of 125	breeding places of 603	
induced by ecdysterone 1542	flight sounds in 594	control of, insecticides for 1822
ovaries in, proteins in 91	Hydromermis spp. in, in Kazakhstan 88	in Japan 3271
Romanomermis nielseni in, development	in Canada 2881	in UŜSR 1079, 1548, 2590
of 1817	in Finland 2957	in snow pools, in Hokkaido 3271
Aedes atropalpus atropalpus	in Japan 603	Romanomermis nielseni in, pathogenicity
gene transfer from A. epactius to 1195	in USA 2933	of 1817
in USA 1195	in USSR 88, 841, 1548, 2594	Aedes fitchii, control of, insecticides for
in tyres, in New York State 1195	in alder bogs, in Belorussia 841	1822
Aedes atropalpus epactius (see A. epactius)	in fir forests, in Belorussia 841	Aedes flavescens, in USSR 1079
Aedes aurotaeniatus, pupal seta 13-CT in	in snow pools, in Hokkaido 603	Aedes flavopictus
2948	Johnston's organs in, sound reception by	breeding places of 603
Aedes australis, Coelomomyces opifexi in,	594	Coelomomyces ponticulus in, in Japan
mode of entry of 107		
	phenology of 2594	588
Aedes bromeliae	seasonal abundance of 2933, 2957	C. stegomyiae in, in Japan 588
in Kenya 2876	group of, oviposition sites of 2591	feeding behaviour in 1559
in tree holes, in Kenya 2876	Aedes cooki	in China 1559
Aedes caballus	descriptions of 1236	in Japan 588, 603
aestivation in 84	in Tonga 1236	in tyres, in Hokkaido 603
in South Africa 84	Aedes cyprius	Aedes fulgens
on man, in South Africa 84	in USSR 1079, 2588	in Kenya 2876
on sheep, in South Africa 84	in reservoir lakes, in Tuva ASSR 2588	in tree holes, in Kenya 2876
Rift Valley fever, virus in, infectivity of	Aedes daitensis	Aedes furcifer
2139	sp. nov., description of 2947	group of
Aedes campestris	in Japan 2947	in Gambia 2037, 2038
biology of 410		on man, in Gambia 393
descriptions of 410		
descriptions of 410	in tree holes, in Ryukyu Islands 2947	
in USSR 410	on man, in Ryukyu Islands 2947	Aedes geniculatus
Aedes canadensis	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590
breeding places of 2063	on man, in Ryukyu Islands 2947	Aedes geniculatus
	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833	Ascocystis culicis in, in Ukraine 2590 in USSR 2590
control of, insecticides for 1822	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus	Acdes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi
	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54
Entomophthora aquatica in 1563	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya
	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54
in Canada 2063, 2881	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063	Acdes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in,	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063 Aedes cantans	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus in Papua New Guinea 833
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215 Aedes detritus	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063 Aedes cantans	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus in Papua New Guinea 833
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063 Aedes cantans Amblyospora opacita in, pathogenicity of 402	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215 Aedes detritus control of 2954, 3265	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus in Papua New Guinea 833 on man, in Bismarck Archipelago 833 Aedes hexodontus
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063 Aedes cantans Amblyospora opacita in, pathogenicity of 402 control of	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215 Aedes detritus control of 2954, 3265 biological 1711, 3297, 3298	Acdes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Acdes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Acdes hebrideus in Papua New Guinea 833 on man, in Bismarck Archipelago 833 Acdes hexodontus breeding places of 2063, 2957, 3271
in Canada 2063, 2881 in caribou hoofprints, in Quebec 2063 Aedes cantans Amblyospora opacita in, pathogenicity of 402	on man, in Ryukyu Islands 2947 Aedes dasyorrhus, in Papua New Guinea 833 Aedes decticus breeding places of 2063 in Canada 2063 in caribou hoofprints, in Quebec 2063 Aedes desmotes, Ascocystis culicis in, development of 1215 Aedes detritus control of 2954, 3265	Aedes geniculatus Ascocystis culicis in, in Ukraine 2590 in USSR 2590 Aedes haworthi in Kenya 54 in Pandanus rabaiensis axils, in Kenya 54 Aedes hebrideus in Papua New Guinea 833 on man, in Bismarck Archipelago 833 Aedes hexodontus

Aedes hexodontus contd.

in pastures, effects of burning on 79 in wildlife areas, in California 2121

in Japan 3271	western equine encephalitis, virus in, in	in USSR 88, 84 in alder bogs, in 1
in caribou hoofprints, in Quebec 2063 in snow pools, in Hokkaido 3271	California 2081 Aedes mercurator	in caribou hoofpr
Aedes implicatus, taxonomy of, synonym of	breeding places of 1818	in floodland fores
A. leucomelas 391	in Canada 1818	in river floodplain
Aedes intrudens	in USSR 2588	in snow pools, in
in USSR 1548, 2588 in reservoir lakes, in Tuva ASSR 2588	in reservoir lakes, in Tuva ASSR 2588 Aedes metallicus	on cattle, in Czec phenology of 25
Aedes iriomotensis	in Gambia 393, 2038	Aedes riversi
in Japan 1217	on man, in Gambia 393	in Japan 1217
on man, in Ryukyu Islands 1217	Aedes mitchellae	on man, in Ryuk
Aedes japonicus breeding places of 603, 3271	in USA 2910 in salt marshes, in South Carolina 2910	Aedes rusticus control of, biologi
Coelomomyces macleayae in, in Taiwan	Aedes nigromaculis	in German Feder
2031	control of 79	Aedes scapularis
in Japan 603, 3271 in Taiwan 2031	biological 2084, 2121 insecticides for 78, 1801, 2111, 2121	in Venezuela 57 in streams, in Ven
in barrels, in Hokkaido 3271	water management for 1801	Aedes scutellaris
in tyres, in Hokkaido 603, 3271	in USA 79, 1801, 2084, 2111, 2121, 3212	in China 1765
Aedes japonicus shintienensis (see A.	in pastures, effects of burning on 79	mid-gut in, pH in
japonicus) Aedes juppi	in wildlife areas, in California 2121 insecticide resistance in	taxonomy of 17
aestivation in 84	in California 1801	Brugia spp. in,
in South Africa 84, 2139	in Utah 3212	susceptibilit
on man, in South Africa 84 on sheep, in South Africa 84	Aedes nipponicus breeding places of 3271	dengue virus in group of, in Tong
Rift Valley fever, virus in, transmission of	in Japan 3271	Aedes sierrensis
2139	in tree holes, in Hokkaido 3271	control of, insecti
Aedes kesseli	Aedes notoscriptus	diapause in 1544
sp. nov., description of 1236 in Tonga 1236	control of, insecticides for 2516 in Papua New Guinea 833	effects of photo egg-hatch in, indu
Aedes koreicus, Culicinomyces spp. in,	Aedes novoniveus, in China 2605	in USA 1192, 1
pathogenicity of 1729	Aedes opok	in tree holes, in C
Aedes leucomelas biology of 391	chikungunya virus in, in Central African Republic 2066	life-span in, effect 2100
descriptions of 391	in Central African Republic 2066, 3295	mating competitiv
distribution of 391	in gallery forests, in Central African	sterilisation or
in USSR 1548, 2588 in reservoir lakes, in Tuva ASSR 2588	Republic 2066 yellow fever, virus in, in Central African	mating in 2098 red eye mutant of
taxonomy of, Aedes implicatus as	Republic 3295	Saint Louis encep
synonym of 391	Aedes oreophilus	transmitted tr
Aedes lineatopennis	breeding places of 3271	sterilisation of, in
aestivation in 84 in Kenya 1551	in Japan 3271 in tree holes, in Hokkaido 3271	Aedes simpsoni biology of 591
in South Africa 84, 2139	Aedes penghuensis, in China 2349	biology of 591 in Nigeria 591
on man, in South Africa 84	Aedes pionips	in leaf axils, in N
on sheep, in South Africa 84 Rift Valley fever	Hydromermis spp. in, in Kazakhstan 88 in Canada 1809	on man, in Nigeri traps for 591
virus in	in USSR 88	complex of
in Kenya 1551	western equine encephalitis, virus in, in	breeding sites of
transmission of 2139 Aedes lineatus	Manitoba 1809 Aedes polynesiensis	in Colocasia ax Aedes sollicitans
in Papua New Guinea 833	autogeny in 2930	baculovirus in, re
on man, in Bismarck Archipelago 833	Brugia malayi in, infectivity of 2036	control of
Aedes luridus aestivation in 84	B. pahangi in, infectivity of 2036 dengue virus in, transmission of 115	insecticides for water managen
in South Africa 84	preyed on by, Toxorhynchites brevipalpis	in USA 1805, 2
on man, in South Africa 84	1231	in dredgings, in S
on sheep, in South Africa 84 Aedes luteocephalus	Wuchereria bancrofti in pathogenicity of 121	in salt marshes in Georgia (US
dengue virus in, in Senegal 1244	permeability of gut to 120	in Rhode Islan
in Gambia 393, 2037, 2038	uptake from man of 2589	in South Caroli
in Nigeria 1230, 2895	Aedes pseudoscutellaris	Aedes squamiger
in Senegal 1244 in water containers, in Nigeria 2895	cell cultures from incorporation of labelled metabolites	control of, water in USA 1782
on man	into 1568	in salt marshes, in
in Gambia 393	pH variation in 1566	Aedes sticticus
in Nigeria 1230 Aedes malikuli	control of insecticides for 412	control of, repelle in Czechoslovakia
Coelomomyces spp. in, in Taiwan 2031	sanitation for 412	on cattle, in Czec
in Taiwan 2031	Getah virus in, replication of 89	oviposition sites of
Aedes mariae enzymes in 72	in Fiji 412 seasonal abundance of 412	Aedes stimulans control of, insecti
mating flight in 822	Semliki Forest virus in, effects of pH on	in Canada 2881
taxonomy of, relation of A. zammitii and	1567	in USA 2933
72 Aedes mascarensis, developmental	West Nile virus in, replication of 89 Aedes pulchritarsis, in Czechoslovakia	seasonal abundan Aedes stramineus, n
abnormalities in, chromosome markers	2065	in, histopatholog
for 593	Aedes pullatus	Aedes tabu, taxonor
Aedes mascarensis × A. aegypti 593 Aedes melanimon	Hydromermis spp. in, in Kazakhstan 88	subspecies of A.
California encephalitis	in USSR 88 Aedes punctodes	Aedes taeniorhynche Amblyospora poly
virus in	breeding places of 2957	2077
effects on CO ₂ susceptibility of 615	in Finland 2957	Bacillus thuringie
transovarial transmission of 2082 California viruses in, in California 2081	Aedes punctor breeding places of 603, 2063, 3271	susceptibility (Cache Valley viru
control of 79	control of, repellents for 3230	control of
biological 2121	flight sounds in 594	biological 204
insecticides for 2121, 3210 in USA 79, 2081, 2121	Hydromermis spp. in, in Kazakhstan 88 in Canada 2063	growth regulate insecticides for
		mocentiaes 101

in Czechoslovakia 3230 in Japan 603, 3271

Aedes melanimon contd.

Aedes punctor contd. 1, 1548, 2594 Belorussia 841 ints, in Quebec 2063 sts, in Belorussia 841 ns, in Belorussia 841 Hokkaido 603, 3271 choslovakia 3230 94 vu Islands 1217 ical 1250 al Republic 1250 nezuela 579 63 765 inheritance of ty to 2631 n, transmission of 115 a 1236 cides for 2108 operiod on 1192 uction of 3245 1544, 2108 California 2108 ts of sterilisation on veness in, effects of 2100 f, genetics of 3240 phalitis, virus in, not ransovarially 1784 radiation for 2098 igeria 591 ia 591 of 1116 tils, in Uganda 1116 eplication of 2882 2920, 3228 ment for 3228, 3279 2910, 3228, 3279 South Carolina 2910 SA) 3279 ad 3228 lina 2910 management for 1782 n California 1782 ents for 3230 3230 hoslovakia 3230 f 2591 cides for 1822 ce of 2933 nosquito iridescent virus gy of 3288 my of, reduced to tongae 1236 ykarya in, in Florida ensis in, effects of age on to 2042 us in, in Jamaica 845 12, 2084 growth regulators for 1762 insecticides for 78, 2920 water management for 3279

in Jamaica 845

Aedes taeniorhynchus contd.	Aedes vexans contd.	Africa, Central, human arbovirus diseases
in USA 2077, 2910, 3279 in dredgings, in South Carolina 2910	control of <i>contd</i> . repellents for 3230	in, review 1826 Africa, West
in salt marshes	Culicinomyces spp. in, pathogenicity of	human arbovirus diseases in, review
in Georgia (USA) 3279	1729	1826
in South Carolina 2910	Dirofilaria immitis in	onchocerciasis in 3310
regular mosquito iridescent virus in, site	in Michigan 378	sleeping sickness in 1873
of entry of 1819	transmission of 600	trypanosomiasis in 1869
Vavraia culicis in, infectivity of 2891 Aedes taylori	diurnal activity in 2597	africana, Caridina
group of	in Canada 1809, 2060, 2881 in Czechoslovakia 387, 1560, 2942, 3230	africana, Mansonia africana, Sergentomyia (Phlebotomus)
in Gambia 2037, 2038	in Japan 603, 3271	africanus, Aedes
on man, in Gambia 393	in South Korea 2122	africanus, Phlebotomus (see Sergentomyia
Aedes togoi	in USA 378, 600, 1789, 1790, 1804,	africana)
blood-meals in, measuring volume of 2909	2040, 2041, 2043, 2612, 2933, 3204,	Afrolabidocarpus, taxonomy of 2484
Breinlia booliati in, effects on adipose	3209, 3211, 3212	Afrolabidocarpus longipes
tissue of 59	in USSR 2346, 2597 in rice-fields, in Hokkaido 603, 3271	sp. nov., description of 2484 in Indonesia 2484
Brugia malayi in	insecticide resistance in, in Utah 3212	on Hipposideros galeritus, in Sumatra
counting ingested microfilariae of 2909 infectivity of, strain differences in	larvae of, sampling of 1811	2484
2885	on cattle, in Czechoslovakia 3230	Afrolabidocarpus vietnamensis
transmission of 2906	on man, in USSR 2597	sp. nov., description of 2484
B. pahangi in, infectivity of, strain	oviposition in	in Vietnam 2484
B. patei in, development of 68	effects of soil moisture on 3242 selection of sites for 2041	on Hipposideros pratti, in Vietnam 248
chromosomes in 1787	oviposition sites of 2591, 2612	Afrotropical region (formerly Ethiopian region)
control of, biological 397	preyed on by, Gambusia spp. 2346	Cheyletus spp. in 733
Culicinomyces spp. in, pathogenicity of	Saint Louis encephalitis, virus in, not	Haemolaelaps spp. in 3422
1729	transmitted transovarially 1784	malaria in 3195
Dipetalonema dessetae in, effects on adipose tissue of 59	seasonal abundance of 2060, 2122, 2597, 2933	Phthiraptera in, on vertebrates, book
enzymes in 3274	Ťahyňa virus in, in Czechoslovakia 1560	1177
extra-jointed palp mutant of 2905	Trichomycetes in, in Nebraska 2043	Agama, Transcaucasian, Ornithodoros spp.
hairless-antenna mutant of 2905	western equine encephalitis, virus in, in	on, in Georgia (USSR) 3408 Agar, diet component for, Musca domestica
in Canada 397, 2927 in China 2349	Manitoba 1809	3356
in South Korea 2122	Aedes vexans vexans, in China 2349 Aedes vittatus	Agelaius phoeniceus
in USA 2927	in Gambia 393, 2038	arthropod parasites of
in USSR 1760	on man, in Gambia 393	in Arkansas 4
in rock pools, in Washington State 2927	Aedes watteni, in China 2605	in Manitoba 4
ionic regulation in 857 oviposition in, stimulants for 2123	Aedes zammitii enzymes in 72	arthropods in nests of, in Manitoba 864 Aggregation pheromones
pigmented pupa mutant of 2905	mating flight in 822	Blaberus craniifer 2560
preyed on by, Anisogammarus	taxonomy of, relation of A. mariae and	Hyalomma dromedarii 1648
confervicolus, in British Columbia	72	Ixodes persulcatus 721
Romanomermis nielseni in, pathogenicity	Aedinae California viruses in, in New York State	I. ricinus 721 Lardoglyphus konoi 3424
of 1817	3246	Vespa crabro 1631
ruby-eye mutant of 2905	predators of, in Nigeria 1113	agilis, Laelaps
seasonal abundance of 2122	Aedinus, taxonomy of 2903	Aging
white-eye mutant of 2905 genetics of 1787	Aegialidae, in Saudi Arabia 2529 aegypti, Aedes	Calliphora vicina, mimicking by γ-
Aedes tongae tabu	Aegyptianella pullorum	radiation of 219 Musca domestica 1351
descriptions of 1236	cryopreservation of 498	lipofuscins as indicator of 460
in Tonga 1236	in, Argas walkerae, multiplication of 498	agrariusia, Gahrliepia
taxonomy of, reduced from specific rank 1236	aenescens, Cataglyphis aenescens, Ophyra	Agricultural buildings, pest control in,
Aedes tongae tongae	aeneus, Eristalis	insecticide duster for 1601 Agrotis ipsilon, Bacillus thuringiensis
descriptions of 1236	Aepyceros melampus	exotoxins in, toxicity of 197
in Tonga 1236	arthropod parasites of, in South Africa	Agrotis segetum
Aedes triseriatus Pacillys thuringiansis in nothogonicity of	1888	enzymes in 748
Bacillus thuringiensis in, pathogenicity of 2501	pest control on 1888 aequatorialis, Cyclops (see Mesocyclops	insecticides in, acetylcholinesterase inhibition by 748
California encephalitis, virus in, effects on	leuckarti aequatorialis)	agyrtes, Ctenophthalmus
CO ₂ susceptibility of 615	aequatorialis, Mesocyclops leuckarti	Ahaimophaga alpestris, in USSR 1067
feeding behaviour in 577, 2935	Aerobacter, in, Diptera, in Brazil 479	Aino virus, in, livestock, in Australia 2652
in USA 2900, 2902, 2935, 3280 La Crosse virus in	Aerobacter cloacae in	Air, chemosterilants in, determination of 2272
effects on feeding of 577	Argas persicus, in Pakistan 247	Aircraft
in Indiana 2900	poultry, pathogenicity of 247	insect control in, permethrin for 2516
transmission of, molecular basis of	Aeroplast, repellent for, Simuliidae, on cattle	mosquito control in 370, 3200
on man, in Wisconsin 2935	1288 Aeshna, preying on, Culicidae 1038	pest control in 1145 AI3-20573-b (see Acetamide, 2-[(4-
oviposition in 2902	Aethechinus algirus	methoxyphenyl)methoxy]-N,N-dipropyl-
population density of 2902	Caparinia algirus on, in Spain 284	AI3-36326-b (see Cyclohexanecarboxamide,
preyed on by, Toxorhynchites rutilus	Sciuropsis guevarai on, in Spain 284	N,N-dipropyl-)
Saint Louis encephalitis, virus in, not	affinis, Hoplopleura affinis, Phlebotomus (see Sergentomyia	AI3-50172 (see 1-Aziridinecarboxamide, N,N'-1,6-hexanediylbis-)
transmitted transovarially 1784	affinis)	AI3-62488 (see Phosphinothioic amide, P,P
snowshoe hare virus in, transmission of,	affinis, Sergentomyia (Phlebotomus)	bis(1-aziridinyl)-N-cyclohexyl-)
molecular basis of 2630	Afghanistan	Akabane virus
traps for 2902, 3280 Aedes trivittatus	Acari in 695 Anopheles culicifacies in 2127	in cattle, in Queensland 866
Coelomomyces spp. in, in Manitoba 622	A. pulcherrimus in 2127	Culicoides brevitarsis, in Queensland
in Canada 622	A. stephensi in 2127	866
in USA 1790, 2900, 3253	Argas hermanni in, viruses in 695	livestock, in Australia 2652
Trivittatus virus in, in Indiana 2900 Aedes vexans	malaria in 2127 Siphonaptera in 2029	Akodon arviculoides, Eubrachylaelaps rotundus on, in Brazil 2491
breeding places of 603, 3271	Africa 2029	Alabama
collecting of 2597	arthropods in, book 775	Aedes trivittatus in 3253
control of 1804	Trombiculidae in, on small mammals	Stomoxys calcitrans in 904
insecticides for 387, 1822, 2040, 2942	1660	alactagalis, Ornithodoros

L-Alanine
in Anopheles stephensi, effects of
Plasmodium berghei on 1199
in Psoroptes cuniculi 2486
in Psoroptes ovis 2486 Alarm pheromones
Aleuroglyphus ovatus 1652
Carpoglyphus lactis 1652
Dermatophagoides farinae 1652
Lardoglyphus konoi 1652
Monomorium pharaonis 229
Tyrophagus putrescentiae 1652, 3425 Alaska
Ceratophyllus spp. in, in Riparia riparia
nests 2303
Siphonaptera in 2330
bacteria in 2322
on birds 1187 on mammals 2584
alaskaensis, Culiseta
Alaudidae
arthropod parasites of, in Kirghizia 1033
bacteria in, in Kirghizia 1033 alba, Orthopodomyia
Alba super
against
Anopheles atroparvus 75
Culex molestus 75
Albania, Haematopota csikii in 17
albator, Arrenurus Alberta
Ceratopogonidae in, on cattle 1287
Culicidae in
natural enemies of 2931
on cattle 1287
Hypoderma bovis in, on cattle 3329 H. lineatum in, on cattle 3329
insect pests in 782
Odocoileus hemionus in, arthropod
parasites of 556
O. virginianus in, arthropod parasites of
556 Ornithodoros concanensis in, on Falco
954
O. kellevi in, in bat roosts 954
Simuliidae in, on cattle 1288, 1289
Simulium spp. in, on cattle 1286, 1287
S. arcticum in 1270, 1271, 1272, 1291, 1292
Tabanidae in, on cattle 1287
albiceps, Chrysomya
albiceps, Sarcophaga
albifrontalis, Calliphora
albimanus, Anopheles albipictus, Dermacentor
albitarsis, Anopheles
albivirgulatum, Simulium
albolateralis, Aedes
alboniveus, Aedes
albopictus, Aedes albopunctata, Sepsis
Albumins, diet component for, Glossina
palpalis 645
Albumins, blood serum
in camel, effects of Haematopinus
tuberculatus on 1175 in Glossina morsitans diet, uptake from
mid-gut of 1092
in Glossina palpalis diet
effects on fecundity and progeny weight
of 439
needed for reproduction 2158
requirement for 1105, 2402 Alca torda, Ixodes uriae on, in Norway
702
alcasidi, Aedes
Alcohols, in Periplaneta americana, effects
on mechanoreceptors of 1735 Aldolase, fructose diphosphate, in fowl,
effects of dichlorvos on 2564
Aldrichina grahami
control of, growth regulators for 464
enzymes in 186, 685, 3366
fat-body in, arginine transport in 2190 methoprene in, development inhibition by
464
microbodies in 3366
proline in, synthesis of 684
Aldrin $((1\alpha,4\alpha,4\alpha\beta,5\alpha,8\alpha,8\alpha\beta)$ -
1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene)
in Musca domestica, enzyme inhibition by
in wasta domestica, chevine nimornon by

```
Aldrindiol (see 1,4:5,8-
    Dimethanonaphthalene-2,3-diol,
    5,6,7,8,9,9-hexachloro-1,2,3,4,4a,5,8,8a-
    octahydro-)
Alectoris rufa, Knemidokoptes mutans on,
    in Spain 3419
Alectorobius tartakovskyi (see Ornithodoros
    tartakovskvi)
Alectorobius tholozani (see Ornithodoros
    tholozani)
 Aleochara moesta
   descriptions of 3344
   life history of 3344
   parasitising, Musca domestica
   preying on, Musca domestica 3344
Aleocharinae, in poultry dung, in North
    Carolina 226
Aleurobius farinae (see Acarus siro)
Aleuroglyphus ovatus
   aggregation in, caused by Lardoglyphus konoi pheromone 3424
   alarm pheromone in 1652
   antigens of 3097
alexandri, Phlebotomus
alexis, Onitis
Alfalfa (see Lucerne)
alfreddugesi, Eutrombicula
   Culicid larvae eating 3263 diet component for, Forcipomyia taiwana
      418
Algeria, Phlebotomus sergenti in, natural
    enemies of 2660
algericus, Laelaps
algirus, Caparinia
   in insect cuticular wax, analysis of 2277
 in Nauphoeta cinerea cuticle, wing-raising
      caused by 785
Alkenes, in Musca domestica cuticle 2706
Allactaga severtzovi, Leishmania major in,
    not infective for Phlebotomus papatasi
Allantonematidae, in, Polygenis tripus, in
    Brazil 3185
Allergens
   of Cladotanytarsus lewisi 2192
   of Culex quinquefasciatus 2132
  of Dermatophagoides 2489
  of Dermatophagoides pteronyssinus
      987, 2492, 3111
  of house dust 517
     role of mites in 923, 1654, 1955
   of Musca domestica 2132
  standardisation of preparations of 3106,
      3107
Allergy (see Hypersensitivity)
Allethrin (2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-
    methyl-1-propenyl)cyclopropanecarboxy-
  against, Panstrongylus megistus repellent for, Aedes aegypti 2347
   resistance to, in, Culex quinquefasciatus
      2353
   (1R-trans)-
     against
       Blattella germanica 1144
Musca domestica 1144
        Panstrongylus megistus 1507
     in Rhodnius prolixus, effects on
         neurosecretory system of 1182
     repellent for
        Aedes aegypti 2347
        Panstrongylus megistus, on rat 39
  [1R-[1\alpha(S^*),3\beta]]-
     in Periplaneta americana, neurotoxicity
         of 3435
     knockdown activity of 1144
repellent for, Aedes aegypti 2347
with bioresmethrin, against, Aedes
aegypti 1245
d-trans-Allethrin (see Allethrin, (1R-trans)-)
Allium sativum (see Garlic)
Allophysalis
   in China 972
   taxonomy of 241
allosetum, Leptotrombidium
Alona, in water supply, effects of permethrin
    on 2713
```

Algae

Alkanes

2146

late)

```
Alopecia
  in guinea-pig
     caused by Cheyletiella parasitivorax
         2774
     caused by Trixacarus caviae 510, 1978
   in rabbit, caused by Cheyletiella
       parasitivorax 2774
  in sheep 503
  in Uncia uncia, caused by Demodex cati
      2234
  in zebu, caused by mites 2538
alpestre, Prosimulium (see Ahaimophaga
    alpestris)
alpestris, Ahaimophaga (Prosimulium)
Alphavirus, in, Culicidae, in French Guiana
Alphitobius diaperinus
  biology of 2204
  control of, insecticides for 486, 687
  development in, effects of temperature on
      2204
  enzymes in 2204
  illustrations of 486
  in Austria 687
in Japan 2204
  in UK 486
in USA 226
  in dwellings, in England 486
  in fowl housing
     in Austria 687 in Japan 2204
  in poultry dung
in England 486
     in North Carolina 226
Alternaria, in, Culicidae, in Ukraine 1025,
    1757
alternata, Psychoda
Alticola stoliczkanus
   Amphipsylla kulkarnii on, in Nepal 3186
  Genoneopsylla angustidigita on, in China
      2864
alticollis, Aclista
Altosand (see Methoprene)
Altosid (see Methoprene)
Altozar (see Hydroprene)
Alugan (see Bromocyclen)
Aluminum, in Simulium breeding water
   2666
Alveonasus lahorensis (see Ornithodoros
lahorensis)
Alzogur (see Cyanamide)
Amalaraeus penicilliger
in USSR 2871, 3184
  on rodents, removal by host of 2342
  on small mammals
     in Siberia 3184
in USSR 2871
                  3184
Amalaraeus penicilliger dissimilis
in USA (Alaska) 2322
on Microtus oeconomus, in Alaska
Pasteurella tularensis in, in Alaska
Amanella emergens (see Cydistomyia
                                            2322
  emergens)
Amanitin, in Aedes aegypti, preventing digestion of blood-meals 1527
Amaranth (dye), use in determining insect
   blood-meal size 1913
amazonensis, Lutzomyia (Phlebotomus;
Psychodopygus)
amazonensis, Mansonia
amazonensis, Phlebotomus (see Lutzomyia
   amazonensis)
amazonensis, Psychodopygus (see
   Lutzomvia amazonensis)
amazonicum, Simulium
amblus, Ornithodoros
Amblycera, on vertebrates, in Afrotropical
    region, book 1177
Amblyomma
  arboviruses in, transmission of 1826
  attraction in 1722
  Congo virus in, transmission of 1945 control of 1480 Dermatophilus congolensis in,
      transmission of
  in Indonesia 925
  on cattle, in Nigeria 245
  on livestock, in Mongolia
                                 1480
  Theileria mutans in, transmission of 936,
      942
Amblyomma americanum
  carbon dioxide in, responses to 604
```

of

Amblyomma americanum contd.	Amblyomma variegatum contd.	Aminotransferase, alanine contd.
control of	in Réunion 958	in fowl, effects of dichlorvos on 2564
acaricides for 1937, 3059	in Tanzania 703	isoenzymes, in Hyalomma, use in
evaluating of 974	in Virgin Islands 958	taxonomy of 934
repellents for 1937	Nairobi sheep disease, virus in, in Kenya	Aminotransferase, aspartate
development in	1641	in Culex quinquefasciatus larvae,
effects of host on 1936	nervous system in 1944	insecticide inhibition of 2352
effects of humidity on 2738	on cattle	in fowl, effects of dichlorvos on 2564
effects of temperature on 2738	in Central African Republic 1411	in Phlebotominae, use as taxonomic
egg production efficiency in, effects of	in Kenya 1641	character of 2967
engorgement weight on 2464	in Nigeria 1108, 3415	isoenzymes, in Hyalomma, use in
fecundity in, effects of host on 1936	on goat, in Malagasy Republic 3060	taxonomy of 934
in USA 1398, 1936, 2209, 2465, 3059	on sheep, in Malagasy Republic 3060	Amitermes wheeleri
on Bos indicus \times B. taurus, in Oklahoma	oviposition in 500, 1108, 3415	food location by 2729
1936	sex pheromone of 1405	in USA 2729
on cattle, in Oklahoma 1936	Theileria mutans in, development of 499	in cattle dung, in New Mexico 2729
on guinea-pig, feeding sites of 252, 710	Thogoto virus in, in Kenya 1641	Amitraz (N' -(2,4-dimethylphenyl)- N -[[(2,4-
on man, in Connecticut 1398	veterinary importance of 3060	dimethylphenyl)imino]methyl]-N-
on wildlife, in Oklahoma 2465	yellow fever, virus in, in Central African Republic 1411	methylmethanimidamide)
preyed on by, Solenopsis invicta, in Louisiana 2209	Amblyomminae, sex pheromones of 2744	against Boophilus microplus 939
rearing of, techniques for 2467	Amblyospora bracteata	Demodex canis, on dog 2766
traps for 604	in	D. folliculorum, on dog 1665
Amblyomma cajennense	Simuliidae	Rhipicephalus appendiculatus, on cattle
aggregation in 1460	in Guatemala 144	2737
control of 1126	in Ukraine 1059	Sarcoptes scabiei, on pig 1661
in Jamaica 845, 2463	Simulium spp., in German Federal	in Buphagus erythrorhynchus, toxicity of
in Mexico 1126, 1460	Republic 1268	1643
on cattle	Amblyospora minuta, in, Aedes spp., in	in cattle, residues of 696
distribution pattern of 1126	Ukraine 1025	Ammonia
in Mexico 1460	Amblyospora opacita	in cattle dung
on donkey, in Jamaica 2463	in	effects of Haematobia irritans on loss of
on man, in Jamaica 2463	Aedes spp., in Ukraine 1025	2425
Wad Medani virus in, in Jamaica 845	A. cantans, pathogenicity of 402	effects of Onthophagus gazellus on loss
Amblyomma cyprium	A. cataphylla, pathogenicity of 402	of 2425
in Australia 16	Amblyospora polykarya	in Rhipicephalus sanguineus, receptors for
on pig, in Queensland 16	sp. nov., description of 2077	4
Amblyomma gemma	in, Aedes taeniorhynchus, in Florida	Ammonium, in Simulium breeding water
Cowdria ruminantium in, transmission of 958	2077 life-cycle of 2077	2666
Theileria mutans in, transmission of	amboinensis, Toxorhynchites	Amoebidium, in, Culicidae, in Nebraska 2043
2474	Ambrosia artemisiifolia, on man,	Amoebina, in, insects 3136
Amblyomma hebraeum	hypersensitivity to 3112	amoreuxi, Androctonus
control of, acaricides for 757	ambulans, Haemogamasus	Amorphacarus, on Sorex bendirii, in Oregon
Cowdria ruminantium in	America, Central, Atopomelidae in 286	509
in South Africa 945	America, North	Ampelodesma mauritanicum, Haemaphysalis
transmission of 958	acarologists in, directory 2269	punctata on, in Italy 3062
enzymes in 2740	Chloropidae in 1832	Amphalius manosus
in South Africa 757, 945, 1645	entomologists in, directory 2269	sp. nov., description of 568
in Zimbabwe 937	America, South, Atopomelidae in 286	in China 568
on cattle	American Samoa, Aedes spp. in 1236	on small mammals, in Yunnan 568
in South Africa 945, 1645	americana, Periplaneta	Amphalius runatus
in Zimbabwe 937	americanum, Amblyomma	in USSR 3184
on rabbit, effects of 2214	americanus, Dermanyssus	on small mammals, in Siberia 3184
preyed on by, Buphagus erythrorhynchus	americanus, Leptinus	Amphibia
1643	Ameroseius corbicula in Bulgaria 1659	Bacillus thuringiensis in, pathogenicity of 2086
salivary glands in 2477 hormonal regulation of degeneration of	on small mammals, in Bulgaria 1659	Diptera on, in Ukraine 1024
2749	Amines, in insect nervous system 1159	neem extracts in, toxicity of 3216
sex pheromone of 1405	Amino acid oxidase (see Oxidase, amino	Ornithodoros spp. on, in Georgia (USSR)
spermatozoa in 497	acid)	3408
Amblyomma lepidum	Amino acids	Phlebotominae on, in Panama 2150
control of, acaricides for 703	in Aedes aegypti, not affected by polluted	Amphipoda, on Ecklonia, development of
Cowdria ruminantium in, transmission of	water 3273	2439
958	in Calliphora vicina hemolymph,	Amphipsylla
in Tanzania 703	developmental changes in 882	on Rodentia, in Himalayas 3186
Amblyomma maculatum	in Culex pipiens hemolymph, effects of	taxonomy of 3186
carbon dioxide in, responses to 604	Romanomermis culicivorax on 1229	Amphipsylla kulkarnii
in USA 1398 on domestic animals, in Connecticut	in Culex quinquefasciatus, not affected by polluted water 3273	sp. nov., description of 3186 in Nepal 3186
1398	in Glossina morsitans diet, absorption by	on Rodentia, in Nepal 3186
sex pheromone of, responses to 926	mid-gut of 2159	Amphipsylla primaris mitis
water balance in 1644	in Heterometrus scaber venom 3434	in USSR 1026
Amblyomma pomposum, Cowdria	in mosquito cell lines, incorporation of	on Microtus brandti, in Transbaikalia
ruminantium in, transmission of 958	1568	1026
Ambiyomma tholioni, sex pheromone of	in Periplaneta americana, effects of	Amphipsylla qinghaiensis
1405	thermal acclimation on 1490	sp. nov., description of 567
Amblyomma variegatum	in Psoroptes cuniculi 2486	in China 567
acaricide resistance in, in Tanzania 703	in Psoroptes ovis 2486	on small mammals, in China 567
Bhanja virus in, in Kenya 1641	in Rhodnius prolixus hemolymph,	Amphipsylla rossica
control of	retention during diuresis of 809	biology of 2579
acaricides for 703	Aminopeptidase	in USSR 2579
grasses for 1722	in Haematobia irritans gut 3369	on Microtus arvalis, development of
Cowdria ruminantium in, transmission of 958	in <i>Haematobia irritans</i> salivary glands 3369	2579 Amphipsylla sibirica
Dugbe virus in, in Kenya 1641	in Stomoxys calcitrans gut 3369	in USSR 2871
eclosion in 500, 1108	in Stomoxys calcitrans salivary glands	on small mammals, in USSR 2871
in Antigua 958	3369	Amphipsylla sibirica sibirica
in Central African Republic 1411	Aminophylline, in Musca domestica, effects	in USSR 3184
in French West Indies 958	on pupariation of 188	on small mammals, in Siberia 3184
in Kenya 1641	Aminotransferase, alanine	Amylase
in Malagasy Republic 3060	in Culex quinquefasciatus larvae,	in Alphitobius diaperinus 2204
in Nigeria 1108, 3415	insecticide inhibition of 2352	in Haematobia irritans gut 3369

Annual reports (1978-79) contd. Androlaelaps fahrenholzi contd. Amyloidosis, in rabbit, caused by Hyalomma Department of Primary Industries, Queensland 16 impressum 1939 Rickettsia prowazekii in, not transmitted Amyrsidea powelli 3066 Annual reports (1979) in Nigeria 1493, 2013, 2569 seasonal abundance of 1659 on fowl, in Nigeria 1493, 2013 on guineafowl, in Nigeria 1493, 2569 Androlaelaps pavlovskii Agricultural Research Council, Zimbabwe in USSR 1032 1405 Ananas comosus (see Pineapple) in rodent nests, in Transbaikalia 1032 Agricultural Science Service, UK 3048 Anaphylaxis Agriculture Canada, Research Branch Anemia in cattle, caused by Simuliidae 1 in man, caused by Vespula 1386 to insect stings, in man 1630 in Asian buffalo, caused by Haematopinus 2510 1289 tuberculatus 2250 in Bos taurus × B. indicus, caused by Centre de Recherches Agronomiques de l'État, Belgium 2762 Centre de Recherches sur les Anaplasma Chrysomya bezziana 663 Trypanosomoses Animales, Upper control of 2224 in cattle, caused by Trypanosoma 1298, vector control for 943 epidemiology of 3393 Volta 3004 1299, 1305 Danish Pest Infestation Laboratory 1479 in rabbit, caused by Amblyomma Department of Agriculture, Northern Ireland 2212 hebraeum 2214 Boophilus microplus, transmission of 2832 in zebu, caused by ticks 2538 Department of Medical Services, Ministry of Health, Cyprus 3267
Edinburgh School of Agriculture 2761
Entente Interdépartementale pour la Anesthetics, for Cochliomyia hominivorax, cattle exhaust gases as 2434 in Costa Rica 3 in Mexico 1640 3393 Aneuropria foersteri in Mexico 1640 in South Africa 2224 Anaplasma marginale control of 943, 949, 950 vector control for 236 in Romania 453 Démoustication du Littoral parasitising, Piophila casei, in Romania Méditerranéen, France 2954, 2955 Hawaiian Sugar Planters' Association Angelica japonica, antifeedant activity of 1802 International Centre of Insect Physiology extracts of 317 and Ecology, Kenya 15
James Cook University of North
Queensland 2836
Secretary for Health, Zimbabwe 2006
South African Institute for Medical
Research 1478 Boophilus microplus, transmission of 938, 949, 961, 2836, 2837, 3060
Bos taurus × B. indicus, in Queensland angiodes, Laelaps Angiotensin I-converting enzyme (see Carboxypeptidase, dipeptidyl) Angola, Culex spp. in 2638 angustati, Depressaria angustidigita, Genoneopsylla angustipennis, Hydropsyche angustitarse, Chelocnetha (see Simulium 961 cattle in Colombia 236 in Queensland 949 Tsetse Research Laboratory, UK 871 in South Africa Annual reports (1979-80) in Spain 3078 in USA 943 Agricultural Research Council, UK 2650 angustitarse) Agricultural Research Council, UK 265C CSIRO Division of Animal Health 2832 CSIRO Division of Entomology 2831 London School of Hygiene and Tropical Medicine 2381

Annual reports (1980)

Entente Interdépartementale pour la Démoustication du Littoral Méditerranéen, France 3265, 3266

Testes Research Laboratory UK 3003 angustitarse, Cnetha (see Simulium in Zimbabwe 937 angustitarse) Dermacentor andersoni, morphology of angustitarse, Eusimulium (see Simulium angustitarse)
angustitarse, Simulium (Chelocnetha;
Cnetha; Eusimulium) 2222 D. variabilis detecting of 2223 morphology of 2222 trans-stadial transmission of angustus, Ixodes anhuiensis, Chiroptella Rhipicephalus simus, in males 3082 zebu, in Australia 938 Aniline (see Benzenamine) Tsetse Research Laboratory, UK 3003 zebu, in Australia vectors of 943, 950 anilis, Dryomyza
Animal burrows, Phlebotomus major in, in annularis, Anopheles annulata, Culiseta annulatus, Boophilus annulifera, Mansonia Anaplasmosis, in Philippines 2804 Sinkiang-Uighur 421 Anastomus oscitans, Argas robertsi on, in Thailand 2815 Animal housing Anopheles superpictus in, in Italy 770 Cimex lectularius in, in Andhra Pradesh 2562 annulirostris, Culex annulus, Culex (see C. vishnui) Anastrepha, on man, in Costa Rica 1344 Anobium punctatum Anaticola biology of 2567 in Yakutia 2567 fly control in 199 in Singapore 1657 in furniture, in Singapore 1657
parasitised by, *Pyemotes ventricosus*, in Singapore 1657 Musca domestica in, in Italy 657 pest control in, insecticide mist generator Anatidae arthropod parasites of, in Kirghizia 1033 Phlebotominae in, in Italy 764
Phlebotomus chinensis in, in China bacteria in, in Kirghizia 1033 Anocentor nitens anatolica, Kayella anatolicum, Hyalomma control of, acaricides for 2218 in Colombia 2218 in Jamaica 2463 on cattle, in Colombia 2218 Animal wastes, conversion to feedstuffs of Ancystropus, in Philippines 3416
andersoni, Dermacentor
Andorra, Siphonaptera in, on small
mammals 2340
Androctonus amoreuxi, venom of 306 2710 Anisogammarus confervicolus in Canada 397 preying on, Aedes togoi, in British Columbia 397 Annelida 1153, 1917, 1987, 2710, 3024, 2463 on donkey, in Jamaica Anoetidae, in mammal nests, in USSR Androctonus australis 1053 activity in, rhythm of 315 3148 Anomiopsyllinae, taxonomy of 1750 hemocyanins in 2779 in Tunisia 2256 Rhynchelmis 2942 Tubifex 2942 Anopheles arboviruses in, transmission of 1826 on man, cardiovascular effects of stings by T. tubifex 3213 Bacillus sphaericus in, in Pondicherry 2256 Annelids 2622 temperature preferences in, effects of prostaglandins on 3116 venom of, toxins in 742

Androctonus mauretanicus in, man, book 1153 behaviour in 1248 Cache Valley virus in, in New York State index-catalogue 3148
pesticides in, non-target effects of 1987
Annual reports (1977)
Department of Veterinary and Tsetse 3246 collections of, in Oswaldo Cruz Foundation, Brazil 1016 control of 3194, 3265 biological 1249, 1537, 2346, 3136, hemolymph in 2253 in Morocco 2252 venom of 2252, 2253 Control Services, Zambia Kenya Agricultural Research Institute fractionation techniques for 2254 1722 3200 Androlaelaps Ministry of Agriculture and Fisheries, Fiji for malaria control 1778, 2285, 2372, in rodent nests, in Transbaikalia 10: on Suncus murinus, in Burma 2775 1658 2380 genetic 3140 Ministry of Agriculture and Natural on Suncus murnus, in Burma 2/75
Androlaelaps fahrenholzi
blood-meals in, identification of 1954
in Bulgaria 1659
in Hungary 2244
in USA 509, 2249, 2302
in USSR 1032 insecticides for 86, 1075, 1218, 1248, 1708, 2006, 2039, 2057, 3200, 3267 evaluating of 94 electrophoresis for studying 70 Resources and the Environment,
Mauritius 224
National Museum of Natural History,
Leiden 1719
Annual reports (1977–78), CSIRO Division flight speed in 2363 fungi in, in USSR 1019 hybrid sterility in 2405 of Entomology 18
Annual reports (1978) in rodent nests, in Transbaikalia 1032 on Apodemus agrarius, feeding by 1954 on Didelphis virginiana, in Oregon 2302 on Dipodomys ordii, in Oregon 2249 on Perognathus parvus, in Oregon 2249 on small mammals, in Bulgaria 1659 on Sorex, in Oregon 509 CSIRO Division of Animal Health 779 Ministry of Health, Cyprus 370 Annual reports (1978–79) in Afrotropical region 3195 in Argentina 400 in Azerbaijan 852 in Canada 1533 in Canary Islands 2071 CSIRO Division of Entomology 19 Department of Agricultural Research and Education, India 962 in China 2880

Anopheles contd.	Anopheles aquasalis	Anopheles coustani contd.
in Cuba 849	in French Guiana 1154	group of, taxonomy of 1248
in Finland 2957	on man, in French Guiana 1154	Anopheles crawfordi
in France 3198, 3265	taxonomy of, relation of A. darlingi and	taxonomy of
introductions of 3200 in Gambia 2363	1768 Anopheles arabiensis	misidentified as A. annularis 108 misidentified as A. vanus 108
in Hokkaido 603	Coelomomyces spp. in, in Nigeria 767	Anopheles crucians
in Indonesia 2801	control of 765, 766	in USA 2046
in Kwangsi 855	for malaria control 829	parasites of, mortality caused by 2046
in Quebec 2881	insecticides for 829	parasitised by, Arrenurus
in Soviet Maritime Territory 3264	cross-mating of, with	pseudotenuicollis, in Florida 2046
in Spain 2941 in Switzerland 3215	Anopheles gambiae 619 A. melas 619	Anopheles cruzii behaviour in 1203
in cattle housing, in Ukraine 1075	habitats of 765	control of, insecticides for 1203, 1204
in forests, in Belorussia 1058	adaptation to 766	in Brazil 1202, 1203, 1204
in Pandanus rabaiensis axils, in Kenya	in Nigeria 765, 766, 767, 829	in dwellings, in Brazil 1203
54	in dwellings, in Nigeria 766, 829	physiological age in 1202
insecticide resistance in 2285, 3194 in Thailand 96	in urban areas, in Nigeria 765 taxonomy of, characters distinguishing A.	Anopheles culicifacies chromosomes in 81
Japanese encephalitis, virus in, in China	gambiae and 64	control of
1827	Anopheles arabiensis × A. gambiae 619	evaluating of 2051
larvae of, distinguishing instars of 2611	Anopheles aruni, chromosomes in 1545	for malaria control 3217
mating in 1766	Anopheles atroparvus	insecticides for 103, 607, 617, 1775,
Nosema spp. in 3136	Brugia patei in, development of 68	2382, 3218 DDT resistance in 1541 2218
parasitised by, water mites, in Quebec 2354	chromosomes in 2356 control of	DDT resistance in 1541, 3218 in Andhra Pradesh 607
Parathelohania legeri in, in Ukraine	biological 1711	in India 2054
1025	detergents for 75	in Pakistan 1775
Plasmodium spp. in, transmission of 326	insecticides for 75, 2596	dieldrin resistance in
P. yoelii in, infectivity of 57	DDT in, flight activity caused by 2878	in Andhra Pradesh 607
predators of, detecting of 1482 research on, in UK 840	DDT resistance in, in Caucasus 2596 flight activity in, effects of test chamber	in Pakistan 1775 eggs of 613
seasonal abundance of 2957	on 2878	fenitrothion resistance in
taxonomy of 2904	habitats of 599	in Gujarat 2382
isoenzymes as characters for 53	in UK 3277	in Maharashtra 2382
Anopheles aconitus	in USSR 86, 87, 405, 1041, 1075, 2596	gonotrophic cycle in 2051
chromosomes in 1558	in Yugoslavia 599	homozygous translocation in, isolating of
in Indonesia 1777, 2127 in Philippines 2127	in marshland, in England 3277 in rice-fields, in Crimea 87	in Afghanistan 2127
in Thailand 2904	ovarian development in, dependence on	in India 81, 103, 572, 607, 609, 2054,
insecticide resistance in 2127	mating of 71	2382, 3217, 3222
Anopheles albimanus	Plasmodium spp. in, infectivity of 405	in Pakistan 81, 617, 1775, 2938
Bacillus sphaericus in, pathogenicity of,	P. vivax in, infectivity of 834	in Sri Lanka 81, 2051, 2382
B. thuringiensis in, pathogenicity of, not	Anopheles balabacensis biology of 124	in Thailand 2904 in cattle housing, in Rajasthan 609
affected by insecticide resistance 2924	habitats of 3194	in dwellings
bibliography 110	in Laos 2127	in Andhra Pradesh 607
chromosomes in, paracentric inversions on	Plasmodium simium in, infectivity of	in Rajasthan 609
1808	576	insecticide resistance in 2127
control of biological 118, 377, 1572, 2924	taxonomy of, Anopheles takasagoensis distinct from 2070	genetics of 2887 life tables for 395
genetic 1808, 3194	Anopheles balabacensis balabacensis	malathion resistance in
growth regulators for 1762	control of, insecticides for 624, 2055	in Andhra Pradesh 607
insecticides for 1816, 2920	in India 624	in Gujarat 2382
repellents for 1813	in Malaysia 2055	mating competitiveness in, effects of
sterile-insect release for 846 enzymes in 1213	in dwellings in Arunachal Pradesh 624	chromosome rearrangements on 293 Plasmodium spp. in, in Delhi 3222
in El Salvador 377, 846, 1816, 2127,	in Sabah 2055	P. simium in, infectivity of 576
3243	on man, in Arunachal Pradesh 624	P. vivax in, infectivity of 834, 2896
in Guatemala 2127	Plasmodium vivax in, infectivity of 834,	sibling species 3222
in Honduras 2127	2896	taxonomy of 2369, 2904
in Nicaragua 2127 in cattle housing, in El Salvador 3243	Anopheles barbirostris in India 2620	sibling species 81
insecticide resistance in 2127	in Indonesia 1777	Toxoglugea spp. in, in Rajasthan 609 white eye mutant of 372
Plasmodium vivax in, infectivity of 834,	Japanese encephalitis, virus in, in West	Anopheles culicifacies adenensis
2896	Bengal 2620	eggs of 613
purines in, metabolism of 1213	taxonomy of, Anopheles donaldi	in Oman 613 taxonomy of, synonym of A. culicifacies
rearing of, techniques for 80, 1815, 2125, 3232, 3236	misidentified as, in West Malaysia 1799	2904
release methods for 846	Anopheles beklemishevi, chromosomes in	Anopheles darlingi
ribonucleosides in, metabolism of 1213	2356	biology of 1793
sampling of 3243	Anopheles bradleyi	chromosomes in 2899
size sorting device for 2126	in USA 2910	DDT resistance in, in Brazil 1767
temephos resistance in, in El Salvador	in salt marshes, in South Carolina 2910 Anopheles braziliensis, in French Guiana	enzymes in 1768 genetic variation in 1768
transport methods for 846	1154	in Brazil 1767, 1793
Vavraia culicis in, infectivity of 2891	Anopheles claviger	in French Guiana 1154
Anopheles albitarsis, chromosomes in 2899	antennae in, sensilla on 2592	on man, in Brazil 1793
Anopheles amictus, Culicinomyces	in France 3199	Plasmodium spp. in, transmission of 32
clavosporus in 62 Anopheles annularis	in USSR 1024, 1041, 2346, 2594 in Yugoslavia 3285	population age-structure in 1793 taxonomy of
control of, insecticides for 1775	on man, in Ukraine 1024	relation of A. aquasalis and 1768
DDT resistance in, in Pakistan 1775	phenology of 2594	relation of A. nuneztovari and 1768
dieldrin resistance in, in Pakistan 1775	preyed on by, Gambusia spp. 2346	Anopheles dirus, chromosomes in 620,
in Indonesia 1777	Anopheles coustani	2921
in Pakistan 1775 in Philippines 3221	in Kenya 1551 Rift Valley fever, virus in, in Kenya	Anopheles donaldi in Malaysia 1799
Japanese encephalitis, virus in, in	1551	in dwellings, in West Malaysia 1799
Philippines 3221	taxonomy of	on man, in West Malaysia 1799
oviposition in, substrate preferences for	characters distinguishing A. tenebrosus	taxonomy of, misidentified as A.
2889	and 2946	barbirostris, in West Malaysia 1799
rearing of, techniques for 2059 taxonomy of 108	characters distinguishing A. ziemanni and 2946	Anopheles earlei Diximermis peterseni in, in Quebec 119

Anopheles earlei contd.
in Canada 1197, 1809
Parathelohania spp. in, in Quebec 1197
western equine encephalitis, virus in, in Manitoba 1809
Anopheles farauti
breeding places of 1776
in Indonesia 1776
in Papua New Guinea 833, 1771
on man
in Bismarck Archipelago 833
in Papua New Guinea 1771 seasonal abundance of 1771
Anopheles farauti No. 2, in Australia 1552
Anopheles fluviatilis
chromosomes in 1558
control of, insecticides for 2054, 3270
DDT resistance in, relation of sulfur
content and 2926
in India 2054, 3270 in Saudi Arabia 623
Anopheles franciscanus
habitats of 2118
in USA 2083, 2118
on cattle, in California 2083
on deer, in California 2083
Setaria yehi in, in California 2083
Anopheles freeborni
blood-meals in, ovarian regulation of retention of 848
control of 3203
Dirofilaria immitis in, in California 2083
habitats of 2118
in USA 2080, 2083, 2093, 2118, 2949,
3203
in rice-fields, in California 2093, 3203
on dog, in California 2083
Plasmodium falciparum in, infectivity of 618
P. simium in, infectivity of 576
P. vivax in
infectivity of 834
transmission of 2896
preyed on by, Gambusia affinis, in
California 2093 Romanomermis culicivorax in 2089
surveillance for 2080 Virgin River virus in, in Arizona 2949
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with
surveillance for 2080 Virgin River virus in, in Arizona 2949 **Anopheles funestus** chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 **Plasmodium spp. in, transmission of 2127, 3195 **Wuchereria bancrofti** in, pathogenicity of 121 **Anopheles gambiae** Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with **Anopheles arabiensis 619**
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794
surveillance for 2080 Virgin River virus in, in Arizona 2949 **Anopheles funestus** chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 **Plasmodium spp. in, transmission of 2127, 3195 **Wuchereria bancrofti** in, pathogenicity of 121 **Anopheles gambiae** Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with **Anopheles arabiensis** 619 **DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 rlasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549 P. yoelii in
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549 P. yoelii in loss of infectivity of 824
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549 P. yoelii in loss of infectivity of 824 not affected by insecticides 824
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 in dwellings, in Nigeria 766, 829 on man, in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghei in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549 P. yoelii in loss of infectivity of 824 not affected by insecticides 824 pathogenicity of 824 pressure as affecting 3200
surveillance for 2080 Virgin River virus in, in Arizona 2949 Anopheles funestus chromosomes in 1545 control of, insecticides for 409, 1794 in Liberia 409, 1794 Plasmodium spp. in, transmission of 2127, 3195 Wuchereria bancrofti in, pathogenicity of 121 Anopheles gambiae Coelomomyces spp. in, in Nigeria 767 control of 765, 766 for malaria control 829 genetic 3194 insecticides for 409, 829, 1794 cross-mating of, with Anopheles arabiensis 619 A. melas 619 DDT resistance in, preventing development of 824 dieldrin resistance in, genetics of 824 gynandromorph of 382 habitats of 765 adaptation to 766 in Gambia 612 in Liberia 409, 1794 in Nigeria 765, 766, 767, 829 in Saudi Arabia 623 in Tanzania 1836 Plasmodium spp. in, transmission of 2127, 3195 P. berghet in, infectivity of, genetics of 616 P. falciparum in, infectivity of, through membranes 1549 P. yoelii in loss of infectivity of 824 not affected by insecticides 824 pathogenicity of 824

```
Anopheles maculipennis contd.
Anonheles gambiae contd.
                                                                malathion in, effects on behaviour of 95
   taxonomy of
                                                                on livestock, in Ukraine 1024
      characters distinguishing A. arabiensis
         and 64
                                                                preyed on by, Gambusia spp. 2346
      characters distinguishing A. melas and
                                                                 West Nile virus in, transmission of 2233
                                                                complex of
                                                                   chromosomes in 2356, 2899
   temperature as affecting 3200
                                                                   reproductive isolation in 1523
   Wuchereria bancrofti in, pathogenicity of
       121
                                                             Anopheles maculipennis atroparvus (see A.
   complex of
                                                                 atroparvus)
                                                             Anopheles maculipennis maculipennis, in
     chromosomes in 2899
      control of, lecithin monolayers for 854
                                                                  USSR 1041, 1075
      distribution maps for 2633
                                                             Anopheles maculipennis messeae (see A.
      in Ghana 97
                                                                  messeae)
     in rice-fields, in Kenya 854
taxonomy of 1248
traps for 97
                                                             Anopheles maculipennis sacharovi (see A.
                                                                 sacharovi)
                                                             Anopheles marshallii, complex of, taxonomy
Anopheles gambiae × A. arabiensis 619
Anopheles grabhamii
Cache Valley virus in, in Jamaica 845
in Jamaica 845
                                                                 of 1248
                                                             Anopheles martinius
                                                                chromosomes in
                                                                                      2356
                                                                in USSR 1523
Anopheles hilli
                                                                reproductive isolation of A. sacharovi and
   in Australia 106
                                                                    1523
   in coral cays, in Queensland 106
                                                             Anopheles mattogrossensis
                                                                in Colombia 3227
parous rates in 3227
Anopheles hyrcanus
   breeding places of 2623
  breeding places of 2623
DDT resistance in, in Tajikistan 1758
habitats of 1758
in India 2620, 2623
in USSR 1024, 1758, 2594
in Yugoslavia 3285
Japanese encephalitis, virus in, in West
Bengal 2620
on man, in Ukraine 1024
phenology of 2594
                                                             Anopheles melanoon, in Yugoslavia 3285
Anopheles melanoon subalpinus,
                                                                  chromosomes in 2356
                                                             Anopheles melas
                                                                cross-mating of, with
                                                                   Anopheles arabiensis 619
                                                                A. gambiae 619
in Gambia 612, 1823
                                                                swarming in 1823 taxonomy of, characters distinguishing A.
  phenology of 2594
   group of
     in Indonesia 2067
taxonomy of 2067
                                                                    gambiae and 612
                                                             Anopheles merus
in Tanzania 1836
on man, in Tanzania 1836
seasonal abundance of 1836
Anopheles hyrcanus sinensis (see A.
    sinensis)
Anopheles jeyporiensis
in Thailand 2904
taxonomy of 2904
                                                             Anopheles messeae
                                                                chromosomes in 2356
Anopheles jeyporiensis candidiensis,
                                                                control of
                                                                   growth regulators for 56 insecticides for 404, 2596
    taxonomy of, synonym of A. jeyporiensis
                                                                DDT resistance in, in Caucasus 2596 habitats of 599
Anopheles koliensis
  breeding places of 1776
in Indonesia 1776
in Papua New Guinea 1771
                          1776
                                                                in USSR 56, 86, 404, 405, 1041, 1075, 2357, 2596
                                                                in Yugoslavia 599, 3285
  on man, in Papua New Guinea
                                          1771
  Plasmodium falciparum in, in Irian Jaya
                                                                in rice-fields, in Caucasus
                                                                monogamy in 2357
  seasonal abundance of 1771
                                                                Plasmodium spp. in, infectivity of 405
Anopheles labranchiae
                                                             Anopheles minimus
                                                                control of, insecticides for 2054
in India 2054
in Japan 1217
in Thailand 2904
  chromosomes in 2356
  control of
     destroying breeding sites for 2128
     insecticides for 2128
Italy 770, 2128
in Italy 770, 2128

Anopheles labranchiae atroparvus (see A.
                                                             Anopheles moucheti, Plasmodium spp. in, transmission of 3195
                                                             Anopheles nigerrimus
    atroparvus)
Anopheles lesteri, in Japan 1217
                                                                control of, insecticides for 1775
Anopheles letifer
                                                                dieldrin resistance in, in Pakistan
  biology of 598
control of, insecticides for 598
in Malaysia 598
                                                                fenthion resistance in, in Pakistan 1775
                                                                in Pakistan 1775
                                                                taxonomy of, misidentified as A. vanus
  in dwellings, in Sarawak 598
                                                                    108
Anopheles leucosphyrus, complex of, chromosomes in 2921
                                                             Anopheles nili
                                                                control of, insecticides for 1794
                                                                in Ghana 97
in Liberia 1794
Anopheles listeri, in South Africa 84
Anopheles maculatus
  Plasmodium simium in, infectivity of
                                                                Plasmodium spp. in, transmission of
       576
                                                                    3195
   P. vivax in, transmission of 834, 2896
                                                                traps for
Anopheles maculipennis
                                                             Anopheles nitidus
  Ascocystis culicis in, in Ukraine 2590 control of 850 insecticides for 2596, 2911
                                                                taxonomy of
                                                                  misidentified as A. annularis
misidentified as A. vanus 108
                                                                                                        108
  DDT in, effects on behaviour of 95
DDT resistance in
                                                             Anopheles nuneztovari
                                                                chromosome races of
     in Caucasus
                                                                                      2899
                      2596
                                                                chromosomes in
                                                                enzymes in 1768, 2068
     in Iran 2911
                                                                genetic variation in
habitats of 3194
   fungi in, in Ukraine 1757
  habitats of 599
in France 3199
in Iran 2911
                                                                in Colombia 2068
                                                                in Venezuela 2068
  in Portugal 2233
in Spain 2233
in USSR 86, 850, 1024, 1757, 2346,
                                                                Plasmodium spp. in, transmission of 326 taxonomy of, relation of A. darlingi and
                                                                    1768
  2590, 2596, 3263
in Yugoslavia 599, 3285
larval diet of 3263
                                                             Anopheles oswaldoi
                                                                in Colombia 3227
                                                                parous rates in 3227
```

Anaphalas namenasi in Thailand 2004	Annahalan assault assault	Annahatan at the art
Anopheles pampanai, in Thailand 2904	Anopheles saperoi contd.	Anopheles subpictus contd.
Anopheles parensis, chromosomes in 1545	in forest streams, in Ryukyu Islands	in Indonesia 1777
Anopheles peditaeniatus	1217	in Maldives 2127
taxonomy of	Anopheles sergentii, in Saudi Arabia 623	in Pakistan 1775
misidentified as A. annularis 108	Anopheles sinensis	on man, in Indonesia 1777
misidentified as A. vanus 108	breeding places of 603, 3271	rearing of, techniques for 2621
Anopheles pharoensis, sterilisation of, X-	Brugia malayi in, transmission of 2140	Wuchereria bancrofti in, infectivity of
irradiation for 578		1777
	control of 2140	
Anopheles philippinensis	biological 1728	Anopheles sundaicus
control of, insecticides for 2054	hosts of 2907	control of, growth regulators for 1554
in India 2054	in China 2140, 2349	in India 2058
	in Japan 603, 1217, 2907, 3271	in Indonesia 1554, 2127
Anopheles plumbeus, in Yugoslavia 3285		in Division 2127
Anopheles pseudopunctipennis	in South Korea 2122	in Philippines 2127
pseudopunctipennis	in rice-fields, in Hokkaido 603, 3271	insecticide resistance in 2127
in El Salvador 843, 3237	on cattle, in Honshu 2907	on Macaca umbrosus, in Andaman and
	on man, in Ryukyu Islands 1217	Nicobar Islands 2058
Plasmodium falciparum in, not infective	on pig, in Honshu 2907	
843		on man, in Andaman and Nicobar Islan
P. vivax in, not infective 843	seasonal abundance of 2122	2058
	Anopheles sinensis annularis (see A.	Plasmodium cynomolgi in, transmission
rearing of, techniques for 843, 3237	annularis)	2058
Anopheles pulcherrimus	Anopheles squamosus, in South Africa 84	Anopheles superpictus
control of, insecticides for 1758, 1775,	Anopheles stephensi	chromosomes in, polymorphism of 770
2917		
	adults of	control of, insecticides for 1758
DDT resistance in	glyceride accumulation in 3257	DDT resistance in, in Tajikistan 1758
in Iraq 2917	weight increases in 3257	habitats of 1758
in Tajikistan 1758	antennae in, sensory receptors on 1200,	in Italy 770
	1201	
dieldrin resistance in, in Pakistan 1775		in Saudi Arabia 623
habitats of 1758	chromosomes in 2894	in USSR 1758
in Afghanistan 2127	ectopic pairing of 601	in Yugoslavia 3285
in Iraq 2917	control of	in animal housing, in Italy 770
in Pakistan 1775	biological 1797, 2606, 2622, 2884	Anopheles takasagoensis
in USSR 1758		
	insecticides for 617, 1775, 2640, 2912,	descriptions of 2070
Anopheles punctipennis	2915	in Taiwan 2070
Diximermis peterseni in, in Quebec 1197	DDT resistance in	on man, in Taiwan 2070
in Canada 384, 1197, 1243	and cross-resistance 3238	on monkey, in Taiwan 2070
in USA 1531, 2083, 3211	in India 2054	Plasmodium inui in, transmission of
in ponds		
	in Pakistan 1775	2070
effects of aquatic plants on 1243	dieldrin resistance in, in Pakistan 1775	taxonomy of, distinct from A.
plant associations of 384	enzymes in 74	balabacensis 2070
predators of, effects of aquatic plants on	HCH resistance in, in India 2054	Anopheles tenebrosus
1243	in Afghanistan 2127	taxonomy of
Strelkovimermis peterseni in, in New	in India 2054, 2373, 2640	characters distinguishing A. coustani
York State 1531	in Iran 2127, 2912	and 2946
Anopheles punctulatus	in Iraq 2127, 2917	characters distinguishing A. ziemanni
breeding places of 1776	in Pakistan 617, 1775, 2915	and 2946
in Indonesia 1776	in Saudi Arabia 623	Anopheles tessellatus
in Papua New Guinea 1771	in Syria 2127	control of 2127
on man, in Papua New Guinea 1771	in dwellings, in Iran 2912	in China 2349
Plasmodium falciparum in, in Irian Jaya	in wells, in Tamil Nadu 2373	in Maldives 2127
1776	insecticide resistance in 2127	Anopheles triannulatus
seasonal abundance of 1771	genetics of 2887	in Colombia 3227
Anopheles quadrimaculatus	life tables for 395	parous rates in 3227
Coelomomyces spp. in 394	malathion resistance in	Anopheles vanus, taxonomy of 108
C. dodgei in 611	in Iraq 2917	Anopheles varuna, in Thailand 2904
control of	in Pakistan 1775, 2915	Anopheles walkeri
biological 2084	marking of, radiophosphorus for 3294	Diximermis peterseni in, in Quebec 119
growth regulators for 1762	mid-gut in 1527	in Canada 1197
insecticides for 1193, 1763	Nosema algerae in, effects of 3259	Anopheles ziemanni
repellents for 1813	permethrin resistance in 3238	flight speed in 2363
Culicinomyces clavosporus in 62	Plasmodium berghei in	in Gambia 2363
Dirofilaria immitis in, in Michigan 378	effects of sulfadoxine on 90	taxonomy of
in USA 378, 1193	effects on amino acids of 1199	characters distinguishing A. coustani
in rice-fields, in Arkansas 1193	increasing susceptibility to bacteria	and 2946
oviposition repellents for 1209	3197	characters distinguishing A. tenebrosus
Plasmodium simium in, infectivity of	pathogenicity of 1198	and 2946
576	P. cynomolgi in, development of 680	Anophelinae, insecticide resistance in 2286
P. vivax in, infectivity of 834	P. vivax in, infectivity of 834	Anoplocephala, in, Histeridae, transmission
Anopheles sacharovi	P. yoelii in	of 686
biology of 853	effects of 4-aminobenzoic acid on 90	Anoplocephalata
chromosomes in 2356	not affected by insecticides 824	in
control of 853	transmission of, effects on virulence of	Ceratozetoidea, in USSR 1081
destroying breeding sites for 2128	610	Oribatei, in Azerbaijan 1051
insecticides for 76, 2917	pressure as affecting 3200	Anoplura
DDT resistance in, in Iraq 2917		control of 2525
	salivary glands in 74	
development in, effects of temperature on	Strelkovimermis peterseni in, not infective	in Iraq 3142
851	1531	in New Zealand 1494
in Iran 2127	temperature as affecting 3200	in Nigeria 2003
in Iraq 2127, 2917	Anopheles subalpinus (see A. melanoon	in Saudi Arabia 2527
in Italy 770, 2128	subalpinus)	on cattle
in Syria 2127	Anopheles subpictus	in Nigeria 245
in Turkey 76, 2127		in Wyoming 2525
	breeding places of 1777	
in USSK 405, 850, 851, 853, 1523	control of 2127	on rat, in Poland 50
in USSR 405, 850, 851, 853, 1523	control of 2127	on rat, in Poland 50
in dwellings, in Azerbaijan 850	control of 2127 biological 2375	on small mammals, in USSR 2571
in dwellings, in Azerbaijan 850 insecticide resistance in 2127	control of 2127 biological 2375 insecticides for 1775, 2640	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region,
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177
in dwellings, in Azerbaijan 850 insecticide resistance in 2127	control of 2127 biological 2375 insecticides for 1775, 2640	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region,
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders)
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853 reproductive isolation of A. martinius and	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in in Pakistan 1775	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders) Anoura geoffroyi, Chirorhynchobia matsoni
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853 reproductive isolation of A. martinius and 1523	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in in Pakistan 1775 in Pondicherry 2640	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders) Anoura geoffroyi, Chirorhynchobia matsoni on, in Mexico 2243
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853 reproductive isolation of A. martinius and	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in in Pakistan 1775	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders) Anoura geoffroyi, Chirorhynchobia matsoni
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853 reproductive isolation of A. martinius and 1523 seasonal abundance of 851	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in in Pakistan 1775 in Pondicherry 2640 feeding behaviour in 1777	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders) Anoura geoffroyi, Chirorhynchobia matsoni on, in Mexico 2243 Anourosorex squamipes
in dwellings, in Azerbaijan 850 insecticide resistance in 2127 in Turkey 76 on man, in Azerbaijan 853 Plasmodium spp. in, infectivity of 405 population age composition in 853 reproductive isolation of A. martinius and 1523	control of 2127 biological 2375 insecticides for 1775, 2640 DDT resistance in in Pakistan 1775 in Pondicherry 2640 dieldrin resistance in in Pakistan 1775 in Pondicherry 2640 feeding behaviour in 1777	on small mammals, in USSR 2571 on vertebrates, in Afrotropical region, book 1177 on zebu, in Malaysia 2538 pathogens of, bibliography 2517 Anorexia (see Appetite disorders) Anoura geoffroyi, Chirorhynchobia matsoni on, in Mexico 2243

Anourosorex squamipes contd. Aphidoidea Leptotrombidium yunnanensis on, in Yunnan 1667 Ant (see Formicidae) Ant traps, Aedes aegypti in, in West Malaysia 1800 Antelope, lechwe (see Kobus leche) antennata, Sergentomyia (Phlebotomus) antennatus, Phlebotomus (see Sergentomyia antennata) antheratus, Latrodectus Anthomyiidae in Azerbaijan 899 taxonomy of 905 Anthrax, in USSR 3413 Anthrenidae, book 322 anthropophaga, Cordylobia Antibiotics, insecticidal activity of 1056 Antibodies to Centruroides noxius venom, in rabbit 2781 to Cimex in man 562 in rabbit 562 to Culex, in rabbit 562 to Dermacentor variabilis, in rabbit 340 to Dermatobia hominis, in rabbit 1588, to Haemaphysalis leporispalustris, in Sylvilagus floridanus 492 to Hypoderma bovis, in cattle 1889 to Hypoderma lineatum, in cattle 1889 to Ixodoidea, in cattle 952 to Ornithodoros moubata, in rabbit 2220 to Simuliidae, in cattle 1290 Antidorcas marsupialis arthropod parasites of, in South Africa 1888 pest control on 1888 Antifeedants, substances tested as: furocoumarins 317, 2796 Antigens of Acarus siro 1669 of Aleuroglyphus ovatus 3097 of Carpoglyphus lactis 3097 of *Dermacentor andersoni*, inducing host resistance 3067 of Dermatobia hominis 1588 of Dermatophagoides farinae 1418, 3097 of Dermatophagoides pteronyssinus of Trypanosoma brucei, changes within vector of 1335 of Tyrolichus casei 1669 of Tyrophagus putrescentiae 3097 Antigua, Amblyomma variegatum in 958 Antihistaminics (see Histamine H1 receptor blockaders) antilopes, Melophagus Antipodes Islands (indexed under New Zealand Island Territories) antiqua, Delia (Hylemya) antiqua, Hylemya (see Delia antiqua) Antisera (see Immune sera) Antivenins, to scorpion venoms 1428 Aotus trivirgatus Plasmodium simium in, infectivity of 576 P. vivax in infectivity to Anopheles of 2896 infectivity to mosquitoes of 834 Apallates, gen. nov., description of 1832

Apallates convexus, taxonomy of, transferred from Hippelates 1832

Apallates dissidens, taxonomy of, transferred from Hippelates 1832

Apallates harmed taxonomy of transferred Apallates hermsi, taxonomy of, transferred from Hippelates 1832

Apallates microcentrus, taxonomy of, transferred from Hippelates Apallates particeps, taxonomy of, transferred from Hippelates 1832 Apamin in Apis mellifera venom, allergenicity of 3381 in mouse, effects on central nervous system of 2458 in rat, effects on central nervous system of 2458

Apeu virus, in, Culex quinquefasciatus, infectivity of 1524

Aphanius dispar, preying on, Culicidae

2642

chromosomes in 1995 in Culicoides occidentalis mating swarms, in California 2385 Aphis fabae, control of, insecticides for 2507 Aphodiidae in Niger 3376 in Saudi Arabia 2529 Aphodius in cattle dung immigration and emigration of 1383 movement patterns of 3050 successions of 490 in dung in German Federal Republic 3055 in UK 228 seasonal abundance of 228 Aphodius fimetarius, Taenia saginata in, transmission of 488 Aphodius fossor, Taenia saginata in, transmission of 488 Aphodius haemorrhoidalis Ascarops strongylina in, in Bulgaria 689 in Bulgaria 689 Simondsia paradoxa in, in Bulgaria 689 Aphodius obscurus Gongylonema pulchrum in, in Bulgaria in Bulgaria 689 Aphodius satyrus Gongylonema pulchrum in, in Bulgaria 689 in Bulgaria 689 Aphodius sticticus in Bulgaria 689 Physocephalus sexalatus in, in Bulgaria 689 Aphodius vittatus in USA 3210 in pastures, effects of insecticides on 3210 apicalis, Culex apicatus, Hippelates (see Liohippelates apicatus) apicatus, Liohippelates (Hippelates)
Apidae, venoms of, toxicity to mouse of Apis mellifera enzymes in 748, 3381 insecticides in, acetylcholinesterase inhibition by 748 on man hypersensitivity to 1930 diagnosis of 1389, 1933, 2455, 3383 treatment of 2459 pesticide poisoning of, cost of 751 SIR-8514 in, toxicity of 1014 venom of 231, 1929, 1930, 2455, 2458, 2459 allergenicity of components of 3381 virus diseases of 3 apistus, Dinopsyllus Aplodontopus sciuricola in USA 922 on Tamias striatus, in Rhode Island 922

Apocrita, taxonomy of, types in Cornell
University collection 3387 Apodemus, Uropoda orbicularis on, in Poland 1655 Apodemus agrarius Androlaelaps fahrenholzi on, feeding by 1954 Eulaelaps stabularis in burrows of 1954 Gahrliepia meridionalis on, in Yunnan 1667 Hystrichopsylla rotundisinuata on, in Yunnan 2580 Ixodidae on, effects on oxygen consumption of 1066 Leptotrombidium allosetum on, in China 2245 Trombiculidae on in Bulgaria 1664 in Kiangsu 2760 Walchia spp. on, in Kiangsu 1003
W. jiangxiensis on, in China 3100
Apodemus flavicollis
Gamasoidea on, in Crimea 993

Ixodes trianguliceps on, in Ukraine

Palaeopsylla soricis on, in Hungary

Trombiculidae on, in Bulgaria

Apodemus latronum Genoneopsylla claviprocera on, in China 2864 Neopsylla biseta on, in Yunnan 570 Apodemus peninsulae, arthropod parasites of, in Maritime Territory 3389 Apodemus speciosus Amphipsylla qinghaiensis on, in China Ixodidae on, effects on oxygen consumption of 1066 Megabothris sinensis on, in China 567 Apodemus speciosus latronum (see A. latronum) Apodemus sylvaticus
Amphipsylla kulkarnii on, in Nepal 3186
arboviruses in, in Spain 2233
arthropods in nests of 1050 Callopsylla kazbegiensis on, in Georgia (USSR) 816 Gamasoidea on 1659 in Bulgaria 16 in Crimea 993 Hystrichopsylla rotundisinuata on, in Yunnan 2580 Ixodes persulcatus on, no resistance to 1039 trianguliceps on, in Ukraine 2736 Leptotrombidium yunnanensis on, in Yunnan 1667 Neopsylla biseta on, in Yunnan 570 Siphonaptera on in USSR 1049 in Yunnan 568 Trombiculidae on, in Bulgaria 1664
Typhloceras poppei on, in Morocco 3183
Apomys, Walchiella impar on, in Philippines Aponomma, in Indonesia 925 Aponomma hydrosauri mating in 1951 inhibited before feeding 3401 on Trachydosaurus rugosus, development of 963 seasonal activity in 963 Apparatus aspirated psychrometer for measuring microhabitat humidity 2274 automatic indoor insecticide duster 160 delivery systems for electrophysiological studies on olfaction 542 for bioassay of larvicides against Simuliidae 2977 for exposing insects to low levels of air contaminants 314 for feeding Cimicidae on birds 1747 for feeding fleas in plague studies 1185 for gradually changing daylength in rearing chambers 1 for measuring electroantennogram responses to insect sex pheromones 1686 for sampling mosquito larvae 1811 for separating aquatic insects by size 2126 for serial mounting of small sections on slides 2514 for sorting swept insects 2275 insect genitalia vials 1017 standing-wave radar actograph for recording insect activity appendiculatus, Rhipicephalus appendigaster, Evania Appetite disorders in Asian buffalo, caused by Haematopinus tuberculatus 2250 in pig, caused by Vespula 914 apri, Haematopinus aprojectus, Ctenophthalmus apronophorus, Ixodes Apyrase in Rhodnius prolixus saliva 354 properties of 1509
aquasalis, Anopheles Aquatic plants
Culicidae and predators as affected by 1243 Simuliidae on, in Poland 2394 Aquatic weeds control of, non-target effects of 3272 Gambusia as affected by 2346 2027 aquatica, Limnochares aquaticus, Asellus

arabiensis, Anopheles	Argas persicus contd.	armatus, Ischyropoda
Arachidonic acid (see 5,8,11,14-	precocenes in, effects of 1393	armenica, Formica cinerea
Eicosatetraenoic acid, (all-Z)-)	Argas reflexus	Armigeres, in Philippines 856
Arachis hypogaea (see Groundnut)	biology of 1941	Armigeres breinli
Arachnida, taxonomy of 1719	hosts of 1941	in Papua New Guinea 833
Araeopsylla faini	in USSR 1941	on man, in Bismarck Archipelago 833
sp. nov., description of 3181	in Yugoslavia 701	Armigeres durhami
in Rwanda 3181	Argas robertsi	Breinlia booliati in, not affecting
on Tadarida pumila, in Rwanda 3181	identifying of 2807	refractoriness to Brugia malayi 177
araguayae, Bothriurus	in Indonesia 2807	Brugia malayi in, not infective 1774
Araneae	in Thailand 2815	Armigeres subalbatus
common names of, in Australia 1454	life history of 2815	Ascocystis armigerei in, in Taiwan 121
in dwellings, in UK 331	on Anastomus oscitans, in Thailand	
	2815	Breinlia booliati in, not affecting
overwintering of, in birds' nests 2005		refractoriness to Brugia malayi 177
preying on	taxonomy of 968	Brugia malayi in, not infective 1774
Hydrotaea irritans, in Irish Republic	Argas robertsi × A. arboreus 968	Coelomomyces stegomyiae in, in Taiwan
2182	Argas tridentatus, olfactory sensilla in	2031
Ornithodoros amblus, in Peru 275	3409	control of, insecticides for 2640
Panstrongylus megistus, in Brazil 42	Argas vespertilionis	in India 2640
Araneida (see Araneae)	biology of 1941	in Japan 1217
aranti, Tabanus	hosts of 1941	in Taiwan 1215, 2031
arboreus, Argas	in USSR 1071, 1941	on man, in Ryukyu Islands 1217
arboricola, Ixodes	on bat, in Uzbekistan 1071	arpaklensis, Sergentomyia (see S. dentata)
Arboviruses	Argas vulgaris	Arrenuridae, parasitising, Culicidae, in
in	biology of 1941	Quebec 2354
cattle, surveillance for 866	hosts of 1941	Arrenurus albator
Culicidae, transmission of 3284	in Iran 2211, 2758	in West Germany 468
men	in USSR 1941	parasitising, Nematocera, in West
in Central Africa, review 1826	Quaranfil virus in, in Iran 2211, 2758	Germany 468
in tropics, review 1945	Argas walkerae, Aegyptianella pullorum in,	Arrenurus buccinator
in West Africa, review 1826	multiplication of 498	in West Germany 468
sea birds, review 1947	Argasidae	parasitising, Nematocera, in West
in Brazil 2897	in Afghanistan 695	Germany 468
Arctia caja, toxin in 232	in Malagasy Republic 3060	Arrenurus crassicaudatus
arcticum, Simulium	in Spain 243	in West Germany 468
Arcyophora, on cattle, in Zimbabwe 1632	phagostimulants for 1471	parasitising, Nematocera, in West
Ardap (see Cypermethrin)		
	salivary glands in, functions of, review 953	Germany 468
Ardeidae, Japanese encephalitis, virus in, in		Arrenurus globator
India 573	argentata, Brachydeutera	in West Germany 468
arenaria, Dolichovespula (Vespula)	argenteomaculatus, Tabanus	parasitising, Nematocera, in West
arenaria, Vespula (see Dolichovespula	argenteostriatum, Simulium	Germany 468
arenaria)	Argentina	Arrenurus latus
arenicola, Leptotrombidium	Aedeomyia squamipennis in, viruses in	in West Germany 468
Aretit (see Dinoseb)	2629	parasitising, Nematocera, in West
Argas	Chrysops spp. in 1476	Germany 468
Congo virus in, transmission of 1945	Culicidae in 400	Arrenurus pseudotenuicollis
identifying of 2807	Encyrtidae in 555	host mortality caused by 2046
in Italy 3064	Hoplopleura spp. in, on rodents 1475	in USA 2046
Argas arboreus	Latrodectus spp. in 1473	parasitising, Anopheles crucians, in
chromosomes in 2469	mites in	Florida 2046
fertility in, effects of γ-irradiation on	in dwellings 984	Arrenurus securiformis
1397	on Rodentia 321	in West Germany 468
nymphs of, effects of γ-irradiation on	Scorpiones in 1477	parasitising, Nematocera, in West
1397	Siphonaptera in, on Rodentia 321, 357	Germany 468
parthenogenesis in 2755	Tabanidae in 463	Arrenurus sinuator
phospholipids in, developmental changes	argentipes, Phlebotomus	in West Germany 468
in 2757	argentiscutum, Simulium	parasitising, Nematocera, in West
salivary glands in 2477	Arginase, in Aldrichina grahami larvae,	Germany 468
serial mounting of sections of 2514	localisation of 186	Arrenurus truncatellus
taxonomy of 968	L-Arginine	in West Germany 468
Argas arboreus × A. robertsi 968	in Aedes togoi, utilisation by Brugia patei	parasitising, Nematocera, in West
Argas brumpti	of 68	Germany 468
in Zimbabwe 1942	in Aldrichina grahami, entry into fat-body	Arrhythmia
on man, effects of bites by 1942	mitochondria of 2190	in man
Argas hermanni	in Anopheles atroparvus, utilisation by	caused by scorpion stings 2256
in Afghanistan 695	Brugia patei of 68	caused by Vespula 915
Quaranfil virus in, in Afghanistan 695	in Psoroptes cuniculi 2486	Arsenic oxide (As ₂ O ₃), in Buphagus
Royal Farm virus in, in Afghanistan 695	in Psoroptes ovis 2486	erythrorhynchus, toxicity of 1643
Uukuniemi virus in, in Afghanistan 695	argus, Simulium	Arsenicals, resistance to, in, Boophilus
Argas persicus	argyreatum, Simulium	microplus, in South Africa 939
Bacillus thuringiensis in, pathogenicity of,	argyrostoma, Parasarcophaga (see	Arthritis, infectious
strain differences in 1048	Sarcophaga argyrostoma)	Ixodes dammini and 269
bacteria in, in Pakistan 247	argyrostoma, Sarcophaga (Parasarcophaga)	tick transmission of 3137
biology of 1941, 3087	ariasi, Phlebotomus	Arthromitus, in, Culicidae, in Nebraska
control of		2043
	Aristolochia bractage chemosterilant	
acaricides for 1718 biological 1048	Aristolochia bractesta, chemosterilant activity of extracts of 1755	Arthropods biological clocks in, book 1723
hosts of 1941	Aristolochic acid I (see Phenanthro[3,4-d]-	common names of
in Czechoslovakia 3087	1,3-dioxole-5-carboxylic acid, 8-methoxy-	in Australia 1454
in Egypt 718	6-nitro-)	in German Federal Republic 545
in Nigeria 1493	Anaphalos frasharni in viruses in 2040	compound eyes in, review 778
in Pakistan 247	Anopheles freeborni in, viruses in 2949	cultures of, catalogue 1999
in USSR 1029, 1718, 1941	Eutrombicula batatas in 982	cuticle in, techniques, book 3131
in Yugoslavia 701	Geomydoecus spp. in, on Thomomys	index-catalogue 3148
in fowl housing, in Armenia 1718	1171	medically-important, in Mauritius 3141
insect juvenile hormones in, accentuating	Arkansas	on man
effects of precocenes 1393	Agelaius phoeniceus in, arthropod	book 1153
life-cycle of 718	parasites of 4	hypersensitivity to 2828
Mycoplasma gallisepticum in	Anopheles quadrimaculatus in, in rice-	problems of observing living 780
in Kabardino-Balkaria 1029	fields 1193	receptors in, functional morphology of
persistence of 1029	Psorophora columbiae in, in rice-fields	1158
on fowl, in Nigeria 1493	376, 1193 armatus, Ctenophyllus	arthurneivai, Triatoma
on guineafowl, in Nigeria 1493		artibei, Ophthalmodex

Artibeus lituratus, Ophthalmodex artibei on, in Suriname 735 Auckland Islands (indexed under New Aspergillus contd. Zealand Island Territories) in contd. Culicidae contd. aruni, Anopheles augur, Calliphora in USSR 1019 aurata, Macronychia arvalis, Hyperlaelaps aurati, Demodex Aspergillus fumigatus, in, man, Arylesterase (see Esterase, aryl) hypersensitivity to 992

Aspergillus niger, in, Culicidae, in USSR aureum, Eusimulium (see Simulium aureum) Asca bicornis aureum, Simulium (Eusimulium) in Bulgaria 1659 on small mammals, in Bulgaria 1659 1019 auricoma, Obuchovia (see Simulium Ascaris suum, in, pig, in German Federal Republic 1959 Aspergillus terreus, in, Phlebotomus spp., pathogenicity of 2968 auricoma) auricoma, Simulium (Obuchovia) Ascarops strongylina, in, Aphodius haemorrhoidalis, in Bulgaria 689 auricularia, Forficula assamensis, Haematopota auripila, Hybomitra auris, Raillietia assamensis, Onitis Ascocystis armigerei assimilis, Ctenophthalmus sp. nov., description of 1215 aurotaeniatus, Aedes Astacus leptodactylus, antennae in, proteins austeni, Culicoides in 3153 Aedes alcasidi, development of 1215 Armigeres subalbatus, in Taiwan 1215 austeni, Simulium (see S. posticatum) Astaxanthin (see β , β -Carotene-4,4'-dione, australasiae, Calcarmyobia 3,3'-dihydroxy-, (3S,3'S)-)
Aster divaricatus, Psorophora ferox on, in Ascocystis culicis australasiae, Periplaneta descriptions of Australia (see also individual States and 1215 Connecticut 1208 Territories) Aster lowrieanus, Psorophora ferox on, in arthropods in, common names of 1454 Aedes aegypti, in Taiwan 1215 Connecticut 1208 A. desmotes, development of 12 A. excrucians, in Ukraine 2590 A. geniculatus, in Ukraine 2590 Boophilus microplus in, on zebu Calliphoridae in, on sheep 164 Culicoidini in 863 in man Anopheles maculipennis, in Ukraine 2590 caused by Dermatophagoides pteronyssinus 2763 Demodex zalophi in, on zoo Zalophus californianus 2228 caused by house-dust mites 1426 caused by Sarcophaga carnaria 769 diagnosis of 3420 entomology in, bibliography 2518, 2519, 2520, 2521, 2522, 2523 insects in, book 3151 Culex pipiens, in Ukraine 2590
Ascocystis lanyuensis sp. nov., description of 1215 insects in, book 3131 livestock in, arboviruses in 2652 medical entomology in 18, 19, 2831 Spilopsyllus cuniculi in, on rabbit 2323 veterinary entomology in 18, 19, 779, 2831, 2832

Australian Capital Territory, Onthophagus role of house-dust mites in 520, 1958, Aedes alcasidi 1975 development of 1215 in Taiwan 1215 astictopus, Chaoborus Astigmata, on small mammals, in South Dakota 511 Ascocystis taiwanensis
sp. nov., description of 1215
in, Aedes albopictus, in Taiwan 1215
Ascoschoengastia indica
in Burma 2479 astur, Hybomitra Asuntol (see Coumaphos) granulatus in, in cattle dung 2728 asymmetricus, Geomydoecus ater, Chrysops (see C. carbonarius) australicus, Culex australis, Aedes australis, Androctonus australis, Raillietia Atheta, in dung, in USSR 1057 on Bandicota bengalensis, in Burma 2479 atlantica, Culiseta on Rattus exulans, in Burma 2479 Atopomelidae Australophyra rostrata in Neotropical region phylogeny of 1952 Atopophthirus setosus on Rattus norvegicus, in Burma 286 descriptions of 893 on Rattus rattus, in Burma 2479 in Australia 165 on sheep, in Western Australia 165 165 Ascoschoengastia montana sp. nov., description of 293 in China 293 sp. nov., description of 558 in China 558 Austria Alphitobius diaperinus in, in fowl houses on Petaurista yunnanensis, in Yunnan on Petaurista petaurista, in China 558 293 ATP (see Adenosine 5'-(tetrahydrogen Cheyletiella blakei in, on cat 515 Ascoschoengastia rousetti triphosphate)) Haematopota csikii in sp. nov., description of 3428 in Philippines 3428 ATPase (see Phosphatase, adenosine tri-) Simuliidae in 3316 Simulidae in 3316

Austroglycyphagus, key 1000

Austroglycyphagus kualalumpurensis
sp. nov., description of 1000
in Malaysia 1000
in house dust, in West Malaysia 1000

Austroglycyphagus malaysiensis
sp. nov., description of 1000
in Malaysia 1000
in Malaysia 1000 atratus, Tabanus on Rousettus amplexicaudatus, in Philippines 3428 Ascoschoengastia yunnanensis Atrichopogon, mouthparts in 3300 atricorpus, Whitneyomyia beatifica (see W. beatifica sp. nov., description of 293 in China 293 atripennis, Tabanus nigrescens Atroban (see Permethrin) atropalpus, Aedes on Petaurista yunnanensis, in Yunnan atroparvus, Anopheles in house dust, in West Malaysia 1000 on Rattus flavipectus, in Yunnan 293 Atropine Asellus aquaticus in guinea-pig, modification of effects of Austrosimulium ungulatum, Leucocytozoon in Czechoslovakia 2942 scorpion venom on heart by 309 tawaki in, ultrastructure of 142 in aquatic habitats, effects of pirimiphos-methyl on 2942 permethrin in, toxicity of 2713 Autan (see Deet)
autogenicus, Culex pipiens (see C. molestus)
autumnalis, Musca
autumnalis, Neotrombicula (Trombicula)
autumnalis, Tabanus in rat, effects on malathion toxicity of 750 Atta, control of, insecticides for 758 Attagenus megatoma (see A. unicolor) Attagenus unicolor Asia, South-East Ceratopogonidae in 2822 in USA 2582 in bat dung, in Massachusetts 2582 dengue hemorrhagic fever in 390 autumnalis, Trombicula (see Neotrombicula Asiatic-Pacific region, Schoengastia spp. in autumnalis) attenuatus, Chironomus avenae, Sitobion asiatica, Polyplax Attractants Avermectin B₁, 22,23-dihydro-, against, asiatica, Ratemia bioassay of, review Psoroptes cuniculi, on rabbit for Culicidae 3284 insect control using 1983 asiaticum, Hyalomma Avermectins Asio flammeus, Haemaphysalis kutchensis on, in Tajikistan 3080 asio, Megabothris acaricidal activity of 2248 against, *Haematopinus suis*, on pig 346 insecticidal activity of 2433 measuring electroantennogram responses to 1686 avicularia, Ornithomya
Aviostivalius, gen. nov., description of Asiolabidocarpus, taxonomy of 2484 substances tested as: cyclic analogues of lactic acid 1525 L-Asparagine in Cochliomyia macellaria, unchanged during anaerobic metabolism 1359 Atylotus in Norway Aviostivalius klossi, taxonomy of, transferred from Stivalius 2306 1907 in Culiseta incidens diet, requirement for in Soviet Far East 3348 Azadirachta indica, insecticidal activity of extracts of 1561, 3216 1238 in USSR 2692 Atylotus chodukini in USSR 205 in Psoroptes cuniculi 2486 Azadirachta indica extracts, with pyrethrins, against, Musca domestica 1447
Azelia cilipes, in China 1618
1H-Azepine, 1-benzoylhexahydro-, repellent for, Hypoderma spp., on cattle 2689 in Psoroptes ovis 2486 on cattle, in Tadzhikistan 205 on man, in Tadzhikistan 205 Atylotus ohioensis, in USA 661 L-Aspartic acid 205 in Anopheles stephensi, effects of Plasmodium berghei on 1199 in Cochliomyia macellaria, decreasing 661 for, Hypoderma spp., on cattle Azidin (see Diminazene aceturate) Atylotus pulchellus
in USSR 205
on cattle, in Tadzhikistan during anaerobic metabolism 1359 Azinphos-ethyl (O,O-diethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] asper, Bothriurus Aspergillus on man, in Tadzhikistan 205 Atyphloceras multidentatus phosphorodithioate) Culicidae in USA 2586 resistance to, in, Culex pipiens 2604 in Ukraine 1025, 1757 on Microtus canicaudus, in Oregon 2586 Azinphosethyl (see Azinphos-ethyl)

Aziridine, 1,1',1"-phosphinothioylidynetris-	Babesia bovis contd.	Bacillus sphaericus contd.
(see Thiotepa)	in contd.	against contd.
Aziridine, 1,1',1"-phosphinylidynetris- (see Tepa)	Boophilus microplus contd. transmission of 947, 3060	Culicidae 1207, 1522, 1537, 1707, 2955, 3266
Aziridine, 1,1',1"-phosphinylidynetris[2-	cattle	in catch basins 2088
methyl- (see Metepa)	immunity to, specificity of 2221	formulations of 1572
1-Aziridinecarboxamide, N,N'-1,6-	in Australia 947	shelf-life of 586
hexanediylbis- in <i>Lucilia cuprina</i>	in Colombia 236 in Mexico 1640	in Aedes aegypti, pathogenicity of, effect
effects on life-span of 1609	in South Africa 948, 2224	of larval behaviour on 3260
effects on mating of 1609	zebu, in Malaysia 2538	Anopheles spp., in Pondicherry 2622
1-Aziridinecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-	Babesia canis, in, Dermacentor reticulatus,	A. albimanus, pathogenicity of, effects of larval behaviour on 3260
(3-phenoxyphenyl)methyl ester,	development of 272 Babesia colchica	Culex spp., in Pondicherry 2622
insecticidal activity of 2264	control of, antiprotozoals for 1069	C. quinquefasciatus
[5-(phenylmethyl)-3-furanyl]methyl ester, insecticidal activity of 2264	in, Boophilus calcaratus, infectivity of,	ingestion of, measuring of 2892 pathogenicity of, effects of larval
1-Aziridinecarboxylic acid, 2,2-dimethyl-3-	effects of diminazene aceturate on 1069	behaviour on 3260
(2-methyl-1-propenyl)-	Babesia divergens	Culicidae, in Romania 1537
2-methyl-4-oxo-3-(2-propenyl)-2- cyclopenten-1-yl ester, insecticidal	control of, immunization for 946	mouse, not pathogenic 1785 rabbit, not pathogenic 1785
activity of 2264	in	rat, not pathogenic 1785
(3-phenoxyphenyl)methyl ester,	cattle in Irish Republic 1635	insecticidal activity of, effects of
insecticidal activity of 2264 [5-(phenylmethyl)-3-furanyl]methyl ester,	in Northern Ireland 946, 2212	local production of 1553
insecticidal activity of 2264	Ixodes ricinus	mode of action of 1537
Azodrin (see Monocrotophos)	in UK 3398	non-target effects of 1537
Azores Culex molestus in 1240	transmission of 277, 946, 1635, 2212 Meriones unguiculatus, infectivity of	sewage as affecting 2088 strains of, characterisation of 2350
Culiseta atlantica in 2069	277	sunlight as affecting 2088
C. longiareolata in 1239	Babesia equi, in, Boophilus microplus,	WHO data sheet on 830
azteca, Hyalella Babesia	transmission of 3060 Babesia major, in, Haemaphysalis punctata,	Bacillus subtilis in
book 2259	in UK 3398	Argas persicus, in Pakistan 247
control of, vector control for 253, 943 development in, effects of temperature on	Babesia microti in	poultry, pathogenicity of 247 Bacillus thuringiensis
1938	Dermacentor andersoni, not transmitted	against
epidemiology of 3393	242	Anopheles spp. 3200
Boophilus decoloratus, detecting of	D. variabilis, not transmitted 242 Ixodes dammini	Culicidae 2955, 3266 in rice-fields 1827
1109	in Massachusetts 1651	book 2787
B. geigyi, detecting of 1109	transmission of 3397	in, Culicidae, in Romania 1537
B. microplus, transmission of 1938, 2476, 2832	I. pacificus, transmission of 242 I. scapularis, transmission of 242	insect control using, review 1535 parasporal protein crystals in, structural
cattle	I. trianguliceps, transmission of 971	chemistry of 1536
effects on immunity to ticks of 1938 in Costa Rica 3393	man, in North America 3397	pest control using 1048 production of, review 1535
deer, in German Democratic Republic	small mammals, in England 971 reservoirs of 3397	Bacillus thuringiensis var. aizawai, plasmic
1721	Babesia motasi	in 1570
goat, in Egypt 2756 horse	in Haemaphysalis punctata	Bacillus thuringiensis var. caucasicus against, Xenopsylla cheopis 1186
in South Africa 941	in Wales 2472	malathion in, toxicity of 312
in Zimbabwe 941	transmission of 1410, 1948	Bacillus thuringiensis var. darmstadiensis
Ixodoidea, transmission of 953 man 3396	sheep in Netherlands 1410	against Aedes aegypti 1228
review 940	in Wales 1948	Culex molestus 1228
Rhipicephalus sanguineus, transmission of 965	Babesia ovis	C. tritaeniorhynchus 1228 Bacillus thuringiensis var. dendrolimus
sheep, in Egypt 2756	Boophilus microplus, transmission of	dimethoate in, not toxic 312
taxonomy of 3396	3060	malathion in, toxicity of 312
Babesia argentina (see B. bovis) Babesia bigemina	Rhipicephalus bursa, enzymes in 264, 3077	trichlorphon in, not toxic 312 Bacillus thuringiensis var. finitimus,
control of 947, 948, 2224	Babesiosis, in Philippines 2804	plasmids not detectable in 1570
antiprotozoals for 1069	babu, Sergentomyia	Bacillus thuringiensis var. galleriae
vector control for 236	Bacillariophyta, eaten by Simulium larvae 1037	against Aedes aegypti 3250
Boophilus spp., transmission of 948	Bacillus alvei	Culicidae 1038
B. calcaratus, infectivity of, effects of	against, Culex quinquefasciatus 2641	in, Argas persicus, pathogenicity of, stra differences in 1048
diminazene aceturate on 1069 B. microplus	culture methods for 2641 storage of 2641	Bacillus thuringiensis var. israelensis
development of 1394	Bacillus anthracis	against
enzymes in 264 transmission of 947, 3060	Argas persicus, in Pakistan 247	Aedes spp., in irrigated pastures 208 A. aegypti 118, 1711, 2042, 3250
ultrastructure of 264	poultry, pathogenicity of 247	A. cantans 1249, 1250
cattle	Bacillus brevis	A. caspius 1711, 3298
immunity to, specificity of 2221 in Australia 947	against, Culex quinquefasciatus 2641 culture methods for 2641	A. detritus 1711, 3298 in tree holes 3297
in Colombia 236	storage of 2641	A. dorsalis, in salt marshes 2087
in French Polynesia 1943	Bacillus cereus, in, Culicidae, in USSR 1038	A. rusticus 1250 A. taeniorhynchus 2042
in Nigeria 245 in South Africa 948, 2224	Bacillus dendrolimus (see B. thuringiensis	Anopheles albimanus 118, 1572
in Zimbabwe 937	var. dendrolimus)	A. atroparvus 1711
Rhipicephalus sanguineus, transmission of 1943	Bacillus insectus (see B. thuringiensis var. thuringiensis)	A. stephensi 1797, 2884 Coquillettidia richiardii 3298
zebu, in Malaysia 2538	Bacillus sphaericus	Culex pipiens 1249, 1711, 1797, 3298
Babesia bovis	against	in drains 3297
control of 947, 948, 2224 vector control for 236	Aedes aegypti 2622 Anopheles albimanus 1572	C. quinquefasciatus 118, 1572 C. tarsalis
in	A. stephensi 2606, 2622	in irrigated pastures 2088
Boophilus spp., transmission of 948	A. subpictus 2375	in salt marshes 2087 Culicidae 1535, 1537, 1707, 1798,
B. microplus pathogenicity of, effects of blood	Culex pipiens 1216 C. quinquefasciatus 1572, 1812, 2375,	2084, 2085, 2954, 3296
passaging on 3088	2622	in catch basins 2088

preying on, Tabanidae, in Tajikistan 3347

1902

Culicidae, review 1783

Basilia mongolensis mongolensis, in Bacillus thuringiensis var. israelensis contd. Bacteria contd. Mongolia 3011 against contd. in contd Basophil degranulation tests Culicidae contd. Diptera, in Brazil 479 for diagnosing hypersensitivity to house-dust mites 1419 in salt marshes 2381 insects, defence mechanisms against Culicoides occidentalis 2385 invertebrates, role in population dynamics of 2839 Culiseta morsitans 1250 for diagnosing hypersensitivity to Psorophora columbiae, in rice-fields Hymenoptera stings 3383 Bat 376 medically-important arthropods, Simuliidae 1535, 1854 bibliography 2517 Acari on, in Uzbekistan 1071 in streams 3313 Nauphoeta cinerea arboviruses in, in Spain 2233 Simulium verecundum 2085 S. vittatum 2397, 2976, 2977 vectors 2286 bioassay of, apparatus for 2977 commercial development of 2085 effects of absence of symbiotic 2545 Argasidae on, in Indonesia 2807 ectoparasites of, in Thailand 2805 Gamasinae on, in Moldavia 1077 transovarial transmission of 2544 Periplaneta americana in gut 29 Mitonyssus noctilio on, in South America in Philippines 1727 Simuliidae, in Ukraine 1055 2238 crystals of, serological relationships of Nycteribiidae on, in Karnataka 2697 Phlebotominae on, in Panama 2150 Solenopsis invicta, in Brazil 1627 formulations of persistence of 2884 Porribius pacificus on, in New Zealand Tabanidae, in USSR 3040 insect control using 3118 2312 stability under tropical conditions of Spinturnicidae on, in Philippines 3416 Streblidae on, in Karnataka 2697 non-target effects of 2258 310 standardisation of 93, 580, 581 sterilisation of, UV-irradiation for 1249, 1250 review 1680 mosquito control using 3194 Trombiculidae on, in Indiana 1966 Simuliidae feeding on, in Finland Bat, big brown (see Eptesicus fuscus) variations in concentration 2400 Baculoviridae Bat dung, arthropods in, in Massachusetts 2582 in Aedes aegypti, effects of age on susceptibility to 2042 Aedes epactius, pathogenicity of, age-Bat, little brown (see Myotis lucifugus) related changes in 63 **Bat roosts** A. taeniorhynchus, effects of age on A. sollicitans, replication of 2882 Cheyletus woodroffei in, in England 506 Ornithodoros kelleyi in in Alberta 954 in Saskatchewan 95 susceptibility to 2042 forest pests, role in population dynamics of 2839 Anopheles albimanus, pathogenicity of, invertebrates, review 525 mammal cell lines, no effects from not affected by insecticide resistance Bathrooms, Periplaneta americana in, in
Punjab 793 2924 1034 Chironomus plumosus, not pathogenic Zeiraphera diniana, role in population dynamics of 2839

Badger, Haemaphysalis japonica on, in Maritime Territory 2734 bavarica, Bakerdania Baygon (see Propoxur) Culex quinquefasciatus, pathogenicity of, not affected by insecticide resistance 2924 Baytex (see Fenthion) Culicidae, effects of 2633 badius, Pogonomyrmex Bdellonyssus bursa (see Ornithonyssus Daphnia magna, not pathogenic 1797 fresh water, non-target effects of 3296 badiusalis, Parapoynx bursa) Bear, black (see Ursus americanus) beatifica, Whitneyomyia Baetis in ponds, effects of insect growth Limnephilus flavicornis, not pathogenic regulators on 3024
in rivers, as indicators of effects of insecticides 1292
baghdadis, Sergentomyia Beauveria, preparing for SEM of 1687 Beauveria bassiana 1797 Manduca sexta, not pathogenic 118 mosquito breeding sites, non-target effects of 2925 Culicidae, in USSR 1019 Nosopsyllus fasciatus, pathogenicity of 1043 baibacina, Frontopsylla frontalis bailyi, Sergentomyia natural waters, contamination by 1249 streams, non-target effects of 1854

Tilapia nilotica, not pathogenic 1797
local production of 1553
non-target effects of 2086 bairamaliensis, Coptopsylla Bakerdania bavarica, in USSR Bakerdania cultrata, in USSR Beauveria tenella against, Culex quinquefasciatus 2641 culture methods for 2641 parasporal protein crystals in 1536 Bakeries, pest control in 1156 storage of 2641 Bedding and linens pH as affecting 2084 plasmids in 1570 sewage as affecting 2088 sunlight as affecting 2088 temperature as affecting 2 balabacensis, Anopheles Bamboo cups, Culicidae in, in Philippines Dermatophagoides pteronyssinus in, in UK 1975 856 Bamboo groves, Trombiculidae in, in Kiangsu 2760 bambusa, Tripteroides Banana, Aedes simpsoni in axils of, in Euroglyphus maynei in, in UK 1975 bedfordi, Phlebotomus (see Sergentomyia bedfordi) Bacillus thuringiensis var. kurstaki bedfordi, Sergentomyia (Phlebotomus) against Aedes aegypti 3250 Manduca sexta 118 Nigeria 591 Beef, diet component for, Solenopsis invicta Bandicota bengalensis Hoplopleuridae on, in Burma 1496 Beef extract, diet component for, Musca in Listrophoroides exilis on, in Pakistan domestica 3356 Aedes aegypti, not pathogenic 118 Beer, bait component for, Blattella germanica 2541 Anopheles albimanus, not pathogenic Mesostigmata on, in Burma 2478 Trombiculidae on, in Burma 2479 germanica 2541 beklemishevi, Anopheles 118 Culex quinquefasciatus, not pathogenic 118 Bangladesh Belgium plasmids in 1570 taxonomy of, var. thuringiensis showing crystal activity of 2501 Culex gelidus in 1562 Cheyletus tenuipilis in, in house dust 300 C. tritaeniorhynchus in 1562 Japanese encephalitis in 1562, 2371 Cordylobia anthropophaga in, on immigrants 2417 Hydrophilidae in, in cattle dung Ixodoidea in, bibliography 2751 Bacillus thuringiensis var. thuringiensis Barathra brassicae (see Mamestra brassicae) Barbastella darjeelingensis, Acari on, in against Aedes aegypti 3250 A. triseriatus 2501 Culex tarsalis 2501 Uzbekistan 1071 Laminosioptes spp. in, on zoo birds 3423 Barbatolysin Neotrombicula autumnalis in, on man in mouse, not lethal 231 2762 exotoxin of, effects of fermentation media on 197 in Pogonomyrmex barbatus venom, hemolytic activity of 231 Sternostoma tracheacolum in, on canary 1413 malathion in, not toxic 312 plasmids in 1570 barbatus, Pogonomyrmex barberi, Triatoma Tabanidae in 449 tick-borne diseases in, bibliography 2751 barbirostris, Anopheles barbosai, Culicoides barraudi, Sergentomyia taxonomy of, kurstaki crystal activity in belisarioi, Sabethes Bembix, in Tajikistan 1617 Bembix bicolor 2501 Bacillus thuringiensis var. tolworthi, Barrels, Aedes japonicus in, in Hokkaido in USSR 1617, 3347 exotoxin of, effects of fermentation media preying on, Tabanidae, in Tajikistan 1617, 3347 on 197 bacoti, Liponyssus (see Ornithonyssus Barthrin ((6-chloro-1,3-benzodioxol-5-yl)methyl 2,2-dimethyl-3-(2-methyl-1-Bembix gracilis
in USSR 1617, 3347
preying on, Tabanidae, in Tajikistan
1617, 3347
Bembix kazakhstanica
in USSR 3347 bacoti) propenyl)cyclopropanecarboxylate)
(1RS-trans)-, in Musca domestica,
poisoning by 207

Bartonellosis, bibliography 1254, 1255 bacoti, Ornithonyssus (Liponyssus) Bacteria in Blatta orientalis, in UK 3157 Chironomus plumosus, in Ontario

Culex molestus in, in Romania

Loxosceles reclusa in, in Iowa 3430

Bembix oculata in USSR 1617, 3347 preying on, Tabanidae, in Tajikistan 1617, 3347 Bembix transcaspica in USSR 1617, 3347 preying on, Tabanidae, in Tajikistan 1617, 3347 Bendiocarb (2,2-dimethyl-1,3-benzodioxol-4yl methylcarbamate) against Aedes spp. 2920
Anopheles spp. 2039
A. albimanus 2920
A. stephensi, in dwellings 2912 Ctenocephalides felis, on cat 2325 Culex molestus 401 C. pipiens 2920 Monomorium pharaonis 2726 Xenopsylla cheopis 2325 formulations of, for ULV 2920 in building materials, persistence of 2 insecticidal activity of 1145, 2325 on walls, persistence of 401 bengalensis, Heterometrus (Palamnaeus) 2039 bengalensis, Palamnaeus (see Heterometrus bengalensis) bengbuensis, Leptotrombidium Benin Haemolaelaps spp. in 3422 Simulium spp. in 1704 Benoxafos (S-[(5,7-dichloro-2-benzoxazolyl)methyl] O,O-diethyl phosphorodithioate) resistance to, in, Boophilus microplus, in South Africa 939 Benserazide (DL-serine 2-[(2,3,4trihydroxyphenyl)methyl]hydrazide) against, Lucilia cuprina 1382

Benzamide, N-[[[5-(4-bromophenyl)-6methylpyrazinyl]amino]carbonyl]-2,6dichloroin Stomoxys calcitrans inhibition of chitin synthesis by 452 not inhibiting chitin synthase 3032 Benzamide, 2-chloro-N-[[[3,5-dichloro-4-(4nitrophenoxy)phenyl]amino]carbonyl]against Aedes aegypti 1453 Manduca sexta 1453 Musca domestica 1453 Plodia interpunctella 1453 Tribolium confusum 1453 in Leucophaea maderae, inhibition of chitin synthesis by 1453 in Stomoxys calcitrans, not inhibiting chitin synthase 3032

Benzamide, N-[[(4-chlorophenyl)amino]carbonyl]-2,6-difluoro- (see Diflubenzuron)

Benzamide, 2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]against Aedes aegypti 1453, 1810 Chaoborus astictopus, in ponds 3013 Chironomidae 1366, 2412 in ponds 3013 Manduca sexta 1453 Musca domestica 1453 Plodia interpunctella 1453 Tribolium confusum 1453 in Apis mellifera, toxicity of 1014 in birds, toxicity of 1014 in fish, toxicity of 1014 in Leucophaea maderae, inhibition of chitin synthesis by 1453 in ponds, non-target effects of 2412, 3013, 3024 in Stomoxys calcitrans inhibition of chitin synthesis by 452 not inhibiting chitin synthase insecticidal activity of 1014 3032 Benzamide, N,N-diethyl-3-methyl- (see Benzamide, N,N-diethyl-4-methyl-, repellent for, Aedes aegypti 2374 Benzamide, 2,6-difluoro-N-[[[4-

(trifluoromethyl)phenyl]amino]carbonyl]against, Musca domestica 1368

in Musca domestica, transfer to eggs of

1368

Benzenamine, 4-chloroin Lepomis macrochirus, diflubenzuron metabolite 2109 in natural waters, diflubenzuron product 2109 Benzenamine, 4-chloro-N-1,3-dithietan-2ylidene-2-methyl-, against, Boophilus microplus, on cattle 700 Benzenamine, 2,4-dimethyl-N-(3-methyl-2(3H)-thiazolylidene)-, against, Ixodes ricinus, on cattle 253 Benzene, 1,4-dichloro-, against, Aedes sierrensis, in tree holes 2108
Benzene, 1,1'-(dichloroethenylidene)bis[4chloro- (see DDE) Benzene, ethenylhomopolymer Alphitobius diaperinus in, damage caused by 2204 Dermestes maculatus in, damage caused by 3057 Benzene, 1-[(7-ethoxy-3,7-dimethyl-2octenyl)oxy]-4-ethyl-, in Culex pipiens, effects of 1754 Benzene, 1-(8-methoxy-4,8-dimethylnonyl)-4-(1-methylethyl)against, Chironomidae 1366, 2412 in ponds, non-target effects of 2412, 3024 Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[-4-chloro- (see DDT) Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[-4-methoxy- (see Methoxychlor) Benzeneacetic acid, 4-chloro-a-(1methylethyl)-, cyano(3phenoxyphenyl)methyl ester (see Fenvalerate) Benzeneacetic acid, 4-(difluoromethoxy)-a-(1-methylethyl)cyano(3-phenoxyphenyl)methyl ester, (S)-acaricidal activity of 756 formulations of 756 insecticidal activity of 756 properties of 756 toxicology of 756 Benzeneacetic acid, a [(dimethoxyphosphinothioyl)thio]-, ethyl ester (see Phenthoate)

Benzeneacetic acid, 2,4,5-trichloro-α-hydroxy-, in cattle, tetrachlorvinphos metabolite 1451 Benzenebutanoic acid, α,2-diamino-3-hydroxy-γ-oxo-, in Lucilia cuprina eyes, effects of eye colour mutations on 2195 Benzenebutanoic acid, a,2-diamino-y-oxo-, in Lucilia cuprina eyes, effects of eye colour mutations on 2195 1,2-Benzenedicarboxylic acid, dimethyl ester, repellent for, Aedes aegypti 1,2-Benzenediol, 4-(2-aminoethyl)- (see 2374 Dopamine) 1,2-Benzenediol, 4-(2-amino-1hydroxyethyl)-, (R)- (see Levarterenol) Benzenemethanamine, N-(2-chloroethyl)-N-(1-methyl-2-phenoxyethyl)- (see Phenoxybenzamine) Benzenemethanol, α -(1-aminoethyl)-2,5dimethoxy- (see Methoxamine) Benzenemethanol, \(\alpha \)-(aminomethyl)-4-hydroxy- (see Octopamine) Benzenemethanol, 4-chloro-\(\alpha \)-(4chlorophenyl)-a-methyl- (see Chlorfenethol) Benzenemethanol, 3,4-dichloro-a-(trichloromethyl)acetate against Musca domestica 1430 345 Pediculus capitis in fowl, residues of 1430 in fowl, residues of 1430
Benzenemethanol, 2-hydroxy-, in Blattella germanica tergal-gland secretion 784
Benzenemethanol, 4-hydroxy-, in Blattella germanica tergal-gland secretion 784
Benzenemethanol, 2,4,5-trichloro-α-methyl-, in cattle, tetrachlorvinphos metabolite 1451 Benzenepropanoic acid, β,2-dimethyl-4-(1-methylethyl)-α-(3-methyl-1-0xobutyl)-, ethyl ester, against, Aedes aegypti 191
Benzenepropanoic acid, α-hydrazino-3,4-dihydroxy-α-methyl-, (S)- (see 1986 Carbidopa)

465 Benzenesulfonamide, 4-amino-N-(5,6dimethoxy-4-pyrimidinyl)- (see Sulfadoxine) Benzenesulfonamide, 4-amino-N-(1-phenyl-1H-pyrazol-5-yl)- (see Sulfaphenazole) 1,2,4-Benzenetriol, 5-(2-aminoethyl)-, in Sarcophaga bullata, inhibiting vitellogenin synthesis 2701 Benzimin (see 1H-Azepine, 1benzoylhexahydro-1,3-Benzodioxole, 5-[[2-(2butoxyethoxy)ethoxy]methyl]-6-propyl-(see Piperonyl butoxide) 1,3-Benzodioxole, 5-[[7-(3,3dimethyloxiranyl)-5-methyl-3heptenyl]oxy]-, against, Anopheles quadrimaculatus 1762 1,3-Benzodioxole, 5-[[6-(3,3dimethyloxiranyl)-4-methyl-3hexenyl]oxy]against Aedes taeniorhynchus 1762 Anopheles albimanus 1762 A. quadrimaculatus 1762 A. quadrimaculatus 1,3-Benzodioxole, 5-[[5-(3,3dimethylthiiranyl)-3-methyl-2pentenyl]oxy]-, not active as insect growth regulator 1988 1,3-Benzodioxole, 5-[1-[2-(2ethoxyethoxy)ethoxy]ethoxy]- (see Sesamex) 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methylcarbamate (see Bendiocarb) 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate (see Carbofuran) Benzoic acid phenylmethyl ester against Demodex spp., on man 726 D. aurati, on golden hamster D. criceti, on golden hamster 282 Sarcoptes scabiei, on man 291, 1673 with 2-butyl-2-ethyl-1,3-propanediol, and N-butyl-N-phenylacetamide, repellent for, Amblyomma americanum, on man 1937 with DDT, and disulfiram, against, Sarcoptes scabiei, on man 292, 1673 with disulfiram, against, Sarcoptes scabiei, on man 1673 with lindane against Pediculus capitis 1178 Sarcoptes scabiei, on pig 1959 sodium salt, diet component for, Musca domestica 3356

Benzoic acid, 4-aminoin Anopheles stephensi, effects on
Plasmodium yoelii of 90 in Periplaneta americana, fate of 546 Benzophosphate (see Phosalone) 2H-1-Benzopyran-2-one, Blaberus craniifer responses to 2560 2H-1-Benzopyran, 6,7-dimethoxy-2,2dimethylin Argas persicus, effects of 1393 in Ornithodoros coriaceus, effects of 1393 in Panstrongylus megistus, effects of 350 in Pediculus humanus, effects of 342 in Rhipicephalus sanguineus, effects of 1393 2H-1-Benzopyran, 7-methoxy-2,2-dimethyl-, in Panstrongylus megistus, effects of Benzothiazole, in Blattella germanica tergal-gland secretion 784 berentiensis, Sergentomyia
Bergapten (see 7H-Furo[3,2-g][1]benzopyran-7-one, 4-methoxy-) bergeroti, Phlebotomus berlesei, Caloglyphus (Sancassania) berlesei, Sancassania (see Caloglyphus berlesei)
Bermuda, Orthopteroida in, book 792

besti. Uroxys

bezziana, Chrysomya bezzii, Musca

Bezzia, Toxoglugea variabilis in, in Sweden 2653

DI I I	District control control	Dinds south
Bhanja virus	Biological control contd.	Birds contd.
in .	of arthropods contd.	Prosimulium subtibbelesi on, in Hokkaido
Amblyomma variegatum, in Kenya	problems with 2262	2665
1641	Protozoa for 1539	Saint Louis encephalitis, virus in, in Brazil
Dermacentor marginatus, transmission	review 3136	2898
of 2233	selecting of agents for 1895	Siphonaptera on
Ixodes ricinus, transmission of 2233	of molluses, Cionella lubrica 2727	in Michigan 2585
Rhipicephalus spp., in Kenya 1641	of plants	in New Zealand 2312
BHC (see HCH)	aquatic weeds 3272	SIR-8514 in, toxicity of 1014
		Birds' nests
y-BHC (see Lindane)	Myriophyllum spicatum 2345 Potamogeton pectinatus 2345	arthropods in, overwintering of 2005
bianchii, Simulium equinum		
bianchii, Wilhelmia equina (see Simulium	of vertebrates, rabbit 2323	insects in, in UK 776
equinum bianchii)	Biopermethrin ((3-phenoxyphenyl)methyl	Macrocheles spp. in, in Kermadec Islands
Bibliographies	(1R-trans)-3-(2,2-dichloroethenyl)-2,2-	3092
Anopheles albimanus 110	dimethylcyclopropanecarboxylate)	Rhodnius pallescens in, in Panama 2576
Australian entomology 2518, 2519, 2520,	against	birneyi, Geomydoecus
2521, 2522, 2523	Anopheles quadrimaculatus 1193	birulai, Corrodopsylla (Doratopsylla)
Cochliomyia hominivorax 3362	Psorophora columbiae 1193	birulai, Doratopsylla (see Corrodopsylla
insect taxonomy and biology in West	in Periplaneta americana, neurotoxicity of	birulai)
Africa 1157	3435	Bisabolol (see 3-Cyclohexene-1-methanol,
Leishmania and leishmanial diseases	resistance to, in	α ,4-dimethyl- α -(4-methyl-3-pentenyl)-)
1254, 1255	Anopheles stephensi 3238	Bisazir (see Phosphinothioic amide, P,P-
parasites of African wild animals 13	Culex quinquefasciatus 392	bis(1-aziridinyl)-N-methyl-)
pathogens of medically-important	and cross-resistance 2353	biseta, Neopsylla
arthropods 2517	synergists for, piperonyl butoxide as	bishoppi, Eucheyletia
resistance to ticks 979	1193	bishoppi, Hippelates (see Liohippelates
Scorpionidae in Arabian Grand Maghreb	Bioresmethrin ([5-(phenylmethyl)-3-	bishoppi)
2251	furanyl]methyl (1 <i>R-trans</i>)-2,2-dimethyl-3-	bishoppi, Liohippelates (Hippelates)
ticks and tick-borne diseases in Benelux	(2-methyl-1-propenyl)cyclopropanecarbo-	bisinuata, Genoneopsylla
countries 2751	xylate)	bisoctodentatus, Ctenophthalmus
		bison, Bubas
Toxorhynchites 1241	against	
Bicarbonate (see Carbonate, hydrogen)	Anopheles atroparvus 75	bispinosa, Haemaphysalis
bicinctus, Cricotopus	Blattella germanica 1143, 1144	bitaeniorhynchus, Culex
bicolor, Bembix	Culex molestus 75, 401	Bites and stings
bicolor, Hadogenes	Culicidae 2111	in man
bicolor, Lutzomyia olmeca	Musca domestica 1143, 1144, 1378	by Argas brumpti 1942
bicornis, Asca	Panstrongylus megistus 1507	by Buthidae 1428
bicoxalae, Schoengastia	in rat, toxicity of 1452	by Buthus 1007
Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-	in Rhodnius prolixus, effects on	by Culicidae 1764
acetate, (1R-endo)-, Periplaneta americana	neurosecretory system of 1182	by Heterometrus 1007
responses to 2540	on walls, persistence of 401	by Hymenoptera 1930, 3052
acetate, (1S-endo)-, Periplaneta americana	synergists for, piperonyl butoxide as	by insects 1630
responses to 2540	1143	by Latrodectus mactans 3113
Bicyclo[2,2,1]heptan-2-one, 1,7,7-trimethyl-,	with $[1R-[1\alpha(S^*),3\beta]]$ -allethrin, against,	by Lyctocoris campestris 564
Periplaneta americana responses to	Aedes aegypti 1245	by Scorpiones 1427, 2256
2540	BIP (see Bacillus thuringiensis var.	by spiders 1478
Bicyclo[2.2.1]hept-2-ene, 5-(bromomethyl)-	caucasicus)	by Vespula 915
1,2,3,4,7,7-hexachloro- (see	[1,1'-Biphenyl]-4-pentanoic acid, β -methyl-,	in pig, by Vespula 914
Bromocyclen)	in Rhodnius prolixus, metamorphosis	Blaberus, neurosecretory system in 2289 Blaberus craniifer
Bicyclo[3.1.1]hept-3-en-2-ol, 4,6,6-trimethyl-,	inhibition by 804	
acetate, (1α,2α,5α)-, Periplaneta	bipustulatum, Sphaeridium	olfactory responses in 2560
americana responses to 2540	Birds Januaria 2007	sarcoplasmic reticulum vesicles in, calcium
bidentata, Leptopsylla (see Peromyscopsylla	Argasidae on, in Indonesia 2807	uptake by 2549
bidentata)	arthropod parasites of, in Kirghizia 1033	Blaberus discoidalis
bidentata, Peromyscopsylla (Leptopsylla)	bacteria in, in Kirghizia 1033	dieldrin in
bidentatiformis, Neopsylla	Culex pipiens on, in Honshu 2907, 2908	metabolism of 332, 2010
bidentatus, Cheyletus	Culicidae on, in South Africa 84	uptake of 332
bifarius, Tabanus	Culicoides spp. on, in South Africa 84	sesamex in, inhibiting dieldrin metabolism
biguttatus, Culicoides	Culiseta melanura on, in New York State	332
biguttatus, Tabanus	1529	Blaberus fuscus (see B. craniifer)
bihaicolus, Culex	Diptera on	Blockhied (see Turdus merula)
	Dipicia on	Diackond (see Turdus merura)
bimaculata, Hybomitra	in Ukraine 1024	Blackbird (see Turdus merula) Blackbird, red-winged (see Agelaius
	in Ukraine 1024 in USSR 1021	
Bioallethrin (see Allethrin, (1R-trans)-)	in Ukraine 1024	Blackbird, red-winged (see Agelaius
	in Ukraine 1024 in USSR 1021	Blackbird, red-winged (see Agelaius phoeniceus)
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R-	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811
Bioallethrin (see Allethrin, (1R-trans)-) 5-Bioallethrin (see Allethrin, [1R- $[1\alpha(S^*), 3\beta]]$ -)	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1\(\alpha(S^*), 3\beta]\]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(s*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens)	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Acdes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomis decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(s*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Acdes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomia decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Giossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Giossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Giossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(s*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Giossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147 Phthiraptera on	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118 mammalian safety of 2799 non-target effects of 2258	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147 Phthiraptera on in Afrotropical region, book 1177 in New Zealand 1494	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788 traps for 2542 in East Germany 335
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(s*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118 mammalian safety of 2799 non-target effects of 2258 review 1680	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomiae on, in Panama 2150 Phlebotomiae on, in Panama 2150 Phlebotomiae on, in Senegal 2147 Phthiraptera on in Afrotropical region, book 1177 in New Zealand 1494 preying on	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788 traps for 2542 in East Germany 335 in Netherlands 1740
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Acdes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118 mammalian safety of 2799 non-target effects of 2258 review 1680 nematodes for 1538	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147 Phthiraptera on in Afrotropical region, book 1177 in New Zealand 1494 preying on Fucellia capensis, in South Africa	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on rat 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788 traps for 2542 in East Germany 335 in Netherlands 1740 in Turkey 788
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Aedes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomis decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118 mammalian safety of 2799 non-target effects of 2258 review 1680 nematodes for 1538 book 1134	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodoidae on, in Oklahoma 2465 Ixodoidae on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147 Phthiraptera on in Afrotropical region, book 1177 in New Zealand 1494 preying on Fucellia capensis, in South Africa 2439	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on man 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788 traps for 2542 in East Germany 335 in Netherlands 1740 in Turkey 788 in UK 1139, 1141, 3157
Bioallethrin (see Allethrin, (1R-trans)-) S-Bioallethrin (see Allethrin, [1R- [1α(S*),3β]]-) Biological clocks, book 20, 1723 Biological control of arthropods (see also Sterile-insect release and individual pathogens) Acdes spp., in wildlife areas 2121 Anopheles spp. 3194 A. sinensis, in rice-fields 1728 Chironomidae 1911 Chironomus decorus 670 Culex spp., in rice-fields 1728 Culicidae 1706, 2346 economics of 2095 in irrigation systems 3272 Glossina spp. 437, 1325 Musca domestica 367, 931 Simulium spp. 1702 Solenopsis invicta 3384 Stomoxys calcitrans 367, 1090 Supella longipalpa 1737 vectors 6 microbial agents for 1534, 3118 mammalian safety of 2799 non-target effects of 2258 review 1680 nematodes for 1538	in Ukraine 1024 in USSR 1021 ectoparasites of, in Thailand 2805 Frontopsylla frontalis on, in China 567 Haemaphysalis japonica on, in Maritime Territory 2734 H. punctata on, in German Federal Republic 956 in Acacia woodland, effects of endosulfan on 872 Ixodes spp. on, in German Federal Republic 956 Ixodidae on, in Oklahoma 2465 Ixodidae on, in Oklahoma 2465 Ixodoidea on, in Morocco 3403 Laminosioptes spp. on, in Antwerp Zoo 3423 Mallophaga on in Hungary 2012 in Spain 340 Ornithodoros amblus on, in Peru 275 phenothiazine in, toxicity of 1012 Phlebotominae on, in Panama 2150 Phlebotomus duboscqi on, in Senegal 2147 Phthiraptera on in Afrotropical region, book 1177 in New Zealand 1494 preying on Fucellia capensis, in South Africa	Blackbird, red-winged (see Agelaius phoeniceus) blakei, Cheyletiella Blankaartia habitats of 2811 in West Malaysia 2811 Blankaartia acuscutellaris in Malaysia 981 on rat 981 on rat 981 Blankaartia dohanyi sp. nov., description of 981 in Indonesia 981 on Egretta intermedia, in West Irian 981 Blarina brevicauda Leptinus americanus on, in West Virginia 3378 Nearctopsylla pfitzeri on, in Tennessee 2867 Blatta orientalis attractants for 1983 bacteria in, in UK 3157 biology of 788 control of 335 insecticides for 788 traps for 2542 in East Germany 335 in Netherlands 1740 in Turkey 788

Blatta orientalis contd.	Bluetongue virus contd.	Book notices and reviews contd.
sternal gland in, functions of 3163	in contd.	Bot, J.; Vermeulen, J.B.; Hollings, N., A
Blattaria	cattle contd.	guide to the use of pesticides and
control of, insecticides for 311	in Western Australia 2142	fungicides in the Republic of South
cuticle in 1159	Culicoides spp., in Australia 866	Africa (ed. 23) [En] 1984
health hazards from 1141	C. nubeculosus	Bottrell, D.R., Integrated pest
in Bermuda, book 792	infectivity of 2650	management [En] 2833
in Netherlands 1740	replication of, aided by Onchocerca	Brady, J., Biological clocks [En] 20
in Nigeria 2003	cervicalis 630	Brener, Z.; Andrade, Z.A. (Editors),
in Quebec 551	C. variipennis	Trypanosoma cruzi and Chagas'
in hospitals, in England 1141	detecting of 627	disease [Pt] 1504
insecticide resistance in 1479	in Idaho 3282	Bruce-Chwatt, L.J., Essential malariology
nervous system in 3156	livestock, in Australia 2652	[En] 2380
on man, hypersensitivity to 2132 salivary glands in 2477	Lutzomyia longipalpis, replication of	Busvine, J.R., Insects and hygiene. The
Salmonella spp. in, in Uttar Pradesh 795	138	biology and control of insect pests of
Blattella, tracheoles in 2835	sheep	medical and domestic importance (ed.
Blattella germanica	in Idaho 3282	3) [En] 322
attractants for 1983	in Sudan 1520	Carne, P.B. et al. (Compilers), Scientific
biology of 788	Blumea erianthi, insecticidal activity of extracts of 2056	and common names of insects and
control of 335	Blumea malcomii, insecticidal activity of	allied forms occurring in Australia [En] 1454
antifeedants for 317, 2796 growth regulators for 1015	extracts of 2056	Cloudsley-Thompson, J.L., Biological
insecticides for 657, 758, 759, 771,	Blumea oxydonata, insecticidal activity of	clocks. Their functions in nature [En]
788, 796, 1143, 1144, 1437, 1440,	extracts of 2056	1723
1441, 1733, 2502	Boettcherisca peregrina	Dickerson, W.A. et al., Arthropod species
evaluating of 2841	cell cultures from 886	in culture in the United States and
traps for 2542	control of, growth regulators for 464	other countries [En] 1999
courtship in 26, 2557	enzymes in 3363	Doszhanov, T.N., Blood-sucking flies
DDT resistance in, associated with	methoprene in, development inhibition by	(Diptera, Hippoboscidae) of
insensitive ATPase 1736 enzymes in 1736	464	Kazakhstan [Ru] 681
gut in 1738	moulting hormones in, inactivation and	Eason, G.; Coles, C.W.; Gettinby, G.,
in East Germany 335	reactivation of 1377	Mathematics and statistics for the bio-
in Netherlands 1740	Boettcherisca septentrionalis, in China 216	sciences [En] 2
in Turkey 788	Bogs, alder, Culicidae in, in Belorussia 841	Eichler, W., Fundamentals of veterinary
in UK 1139, 1141	Bolivia	medical entomology [De] 1152
in USA 796	Mitonyssus noctilio in, on bats 2238	Farmer, J.N., The Protozoa. An
in buildings, assessing infestations of	Triatominae in 1474 Bombyliidae	introduction to protozoology [En] 2259
2541 in dwellings, in California 796	in Arabian Peninsula 2532	Fripp, P.J., An introduction to human
insecticide avoidance by 1140	parasitising	parasitology with reference to southern
locomotion in 2557	Glossina spp. 437	Africa [En] 1153
neurosecretory system in 2289	Hybomitra lasiophthalma, in Texas	Gillott, C., Entomology [En] 540
Salmonella typhimurium in, transmission	2167	Goode, J., Insects of Australia [En] 3151
of 1730	Bombyx mori	Gupta, A.P. (Editor), Insect hemocytes.
sex pheromone of, responses to	enzymes in 2995	Development, forms, functions and
components of 549	gut in, passage of proteins through 200	techniques [En] 544
spermiogenesis in, achrosome formation during 790	Naja mossambica venom in, toxicity of	Hennig, W., Insect phylogeny [En] 2511
spiculum copulatus in 2555	200	Hinton, H.E., Biology of insect eggs (3
tergal glands in 784	on man, hypersensitivity to 319	vols.) [En] 2280
Tetrastichus hagenowii not parasitising	pyrethroids in, toxicity of 1446	Hollis, D., Animal identification, a
2550	bonariensis, Bothriurus	reference guide. Volume 3. Insects
vitellins in 2007	bonneae, Chagasia bonneae, Mansonia	[En] 538 Hull, W.B.; Odland, G.C. (Editors),
Blephariceridae, palpal sensilla in 3309	Book notices and reviews	Directory of North American
Blepharitis (see Eyelid diseases) Blesbok (see Damaliscus dorcas)	Atkins, M.D., Introduction to insect	entomologists and acarologists [En]
Blood, diet component for, Forcipomyia	behavior [En] 535	2269
taiwana 418	Autrum, H. (Editor), Handbook of	Kevan, D.K.McE., The orthopteroid
Blood meal	sensory physiology. Vol. VII/6B.	insects of the Bermudas [En] 792
bait component for, Cochliomyia	Comparative physiology and evolution	Knight, F.B.; Heikkenen, H.J., Principles
hominivorax 1132, 2169	of vision in invertebrates. B:	of forest entomology (ed. 5) [En]
diet component for, Cochliomyia	invertebrate visual centers and	1151
hominivorax 1918 Blood-meals	behaviour I. [En] 2004 Balashov, Yu.S. (Editor), Atlas of the	Kolonin, G.V., World distribution of ixodid ticks (genus <i>Haemaphysalis</i>)
in Aedes aegypti	electron microscopic anatomy of	[Ru] 501
determination of excretory products	ixodid ticks [Ru] 719	Ledger, J.A., The arthropod parasites of
from 1564	Bateman, P.L.G., Household pests. A	vertebrates in Africa south of the
digestion of 3196	guide to the identification and control	Sahara. Volume IV. Phthiraptera
effects on mid-gut of 1527	of insect, rodent, damp and fungoid	(Insecta) [En] 1177
in Aedes togoi, measuring volume of 2909	problems in the home [En] 7 Begon, M., Investigating animal	Locke, M.; Smith, D.S. (Editors), Insect biology in the future. 'VBW 80' [En]
in Anopheles freeborni, ovarian regulation	abundance: capture-recapture for	1725
of retention of 848	biologists [En] 531	Maramorosch, K.; Hirumi, H. (Editors),
in Glossina, identifying of 3322	Beĭ-Bienko, G.Ya., General entomology	Practical tissue culture applications
in Haematobia irritans, measuring size of	(ed. 3, enlarged) [Ru] 2823	[En] 1467
1913	Berdyev, A., The ecology of ixodid ticks	May, R.M. (Editor), Theoretical ecology.
in mites, identification of 1954	of Turkmenistan and their role in the	Principles and applications (ed. 2) [En]
in Stomoxys calcitrans, stimulating incorporation of glucose into	epizootiology of natural-focal diseases [Ru] 2747	3146 McAlpine, J.F. et al. (Coordinators),
glycerides 3028	Berridge, M.J.; Treherne, J.E.;	Manual of Nearctic Diptera (vol. 1)
in Tabanidae	Wigglesworth, V.B. (Editors),	[En] 2587
effects on life-span of 1921	Advances in insect physiology (vol. 15)	Menzie, C.M., Metabolism of pesticides.
size of 1899	[En] 1159	Update III [En] 2790
in Triatoma infestans, identification of	Blackman, R.L.; Hewitt, G.M.;	Miller, T.A. (Editor)
1506 Rload pressure high (see Hypertension)	Ashburner, A. (Editors), Insect	Cuticle techniques in arthropods [En]
Blood pressure, high (see Hypertension) Blood pressure, low (see Hypotension)	cytogenetics [En] 1995 Blanton, F.S.; Wirth, W.W., Arthropods	Neurohormonal techniques in insects
Bluetongue virus	of Florida and neighbouring land	[En] 3144
in	areas. Volume 10. The sand flies	Mittler, T.E.; Radovsky, F.J.; Resh, V.H.,
cattle	(Culicoides) of Florida (Diptera:	Annual review of entomology (vol. 26)
in Australia 866	Ceratopogonidae) [En] 131	[En] 3133

Book notices and reviews contd. Molineaux, L.; Gramiccia, G., The Garki project. Research on the epidemiology and control of malaria in the Sudan savanna of West Africa [En] 829 Mordue, W.; Goldsworthy, G.J.; Brady, J.; Blaney, W.M., Insect physiology [En] 1685
Morel, P.C., Study on Ethiopian ticks Moret, P.C., Study on Emoplan ticks
(Acarida, Ixodida) [En] 951
Nepoklonov, A.A.; Khipe, T.; Shplistezer,
Kh.; Dorzh, Ts., Diseases of animals
caused by bot-flies [Ru] 2691
Niyazov, O. D. (Editor), Ecologicalfaunistic complexes of insects in southwestern Turkmenistan [Ru] 2826 Poinar, G.O., Jr., Nematodes for biological control of insects [En] 1134 1134
Price, P.W., Evolutionary biology of parasites [En] 536
Riegert, P.W., From arsenic to DDT. A history of entomology in western Canada [En] 2539
Roelofs, W.L. (Editor), Establishing efficacy of sex attractants and disputants for insect control [En] disruptants for insect control [En] 1983 Scrivenor, Sir T., CAB – the first 50 years [En] 752 [En] 752
Service, M.W., A guide to medical entomology [En] 539
Shcherbak, G.I., Mites of the family Rhodacaridae of the Palaearctic [Ru] Sittig, M. (Editor), Pesticide Sittig, M. (Editor), Pesticide manufacturing and toxic materials control encyclopedia [En] 2787
Skaife, S.H.; Ledger, J. (Reviser), African insect life (ed. 2) [En] 775
Steinmann, H.; Zombori, L., An atlas of insect morphology [En] 2512
Strausfeld, N.J.; Miller, T.A. (Editors), Neuroanatomical techniques. Insect nervous system [En] 3143 Neuroanatomical techniques. Insect nervous system [En] 3143 Van den Bosch, R., The pesticide conspiracy [En] 1432 van der Hammen, L., Glossary of acarological terminology. Vol. 1: General terminology [En] 1957 Wegler, R. (Editor), The chemistry of plant-protection and pest-control plant-protection and pest-control products. Vol. 6. Insecticides, products. Vol. 6. Insecticides, bactericides, oomycete fungicides, biochemical and biological methods, natural products [De, En] 2262 Wittmer, W.; Bütticker, W. (Editors), Fauna of Saudi Arabia. Vol. 2 1980 [En,De,Fr] 2526
Wood, D.M.; Dang, P.T.; Ellis, R.A., The insects and arachnids of Canada. Part 6. The mosquitoes of Canada. Diptera: Culicidae [En] 1533 **Boonhilus** Congo virus in, transmission of 1945 control of 1480, 2224, 3393 Dermatophilus congolensis in, transmission of in Indonesia 925 on cattle in Costa Rica 3393 in Nigeria 245 in South Africa 2224 on livestock, in Mongolia 1480
preyed on by, Buphagus erythrorhynchus,
in South Africa 1643
taxonomy of 2476 Boophilus annulatus chromosomes in 3071 development in, abnormal in Egypt 2475, 2752, 3394 in French Polynesia 1943 in India 1401 in Spain 1117 insemination in life-span in 1935 1935 on cattle in Egypt 3394 in French Polynesia 1943 in Karnataka 1401 on Cervus elaphus, in Spain 1117 oviposition in 494 parthenogenesis in 1935

Boophilus annulatus contd. seasonal abundance of 1401, 3394 spermatogenesis in 3071 Boophilus annulatus × B. microplus, sterility in 2739 Boophilus calcaratus Babesia bigemina in, infectivity of, effects of diminazene aceturate on 1069 B. colchica in, infectivity of, effects of diminazene aceturate on 1069 control of, acaricides for 955 habitats of 1072 in USSR 1072 in Yugoslavia 701 conhibus decoloration Boophilus decoloratus Anaplasma marginale in, transmission of 950 Babesia spp. in detecting of 1109 transmission of 948 control of acaricides for 757 testing of 1406 grasses for 1722 eggs of, lipids in 2210 in South Africa 757, 948, 1645, 2468 in Zimbabwe 937, 1638 on cattle in South Africa 948, 1645 in Zimbabwe 937 preyed on by Buphagus erythrorhynchus in South Africa 2468 seasonal abundance of 1638 Boophilus geigyi, Babesia spp. in, detecting of 1109 Boophilus microplus acaricide resistance in, in South Africa 939 aggregation in 1460 functions of 964 Anaplasma spp. in, transmission of 2832 A. marginale in, transmission of 938, 949, 950, 961, 2836, 2837 Babesia spp. in, transmission of 948, 1938, 2832 B. bigemina in development of 1394 enzymes in 264 transmission of 947, 2221 ultrastructure of 264 B. bovis in pathogenicity of, effects of blood passaging on 3088 transmission of 947, 2221 biology of 2476 cell cultures from 2226, 3412 chromosomes in 3071 control of 258, 259, 260, 2476 acaricides for 696, 700, 757, 939, 961, 975, 1124, 1126, 2218, 2746, 2837, 3068 testing of 1406 economics of 1924 integrated 1124 pasture rotation for descriptions of 2476 development in 1129 effects of temperature on 1461 distribution of 2476 embryonic development in 1125 enzymes in 2217 ethion resistance in, in New Caledonia 3068 in Australia 258, 259, 260, 938, 959, 961, 1938, 2742, 2832, 3072 Colombia 700, 2218 in Colombia in India 2746 in Jamaica 2463 in Malagasy Republic 3060 in Malagasy Republic 3060 in Malaysia 2538 in Mexico 1124, 1126, 1460, 1461, 1640 in New Caledonia 3068 in New Hebridges 3061 in Nicaragua 757 in Philippines 2804 in South Africa 939, 948 insemination in 1935 life-span in 1935 nervous system in 3407 on Bos indicus × B. taurus in Oueensland 259 in Queensland resistance to 260

Boophilus microplus contd. on Bos taurus × B. indicus hyperemia caused by in Queensland 961 resistance to 2742 on cattle antienzymes to 2217 distribution pattern of 1126 eosinophils transporting histamine to attachment sites of 247 hyperemia caused by 3073 2471 immunity to, effects of Babesia on 1938 in Andaman and Nicobar Islands 2746 in Colombia 700, 2218 in Jamaica 2463 in Mexico 1124, 1460, 1640 in New Hebrides in Queensland 258, 259, 260 in South Africa 948 resistance to 2476 dermal vasculature and 3072 role of histamine in 1395 seasonal variation in 959 transfer from herbage of 964 on guinea-pig, antienzymes to 2217 on zebu in Australia 938 in Malaysia 2538 in Queensland 259 oviposition in 256, 1129 parthenogenesis in 1935 population dynamics of, model 928 preyed on by, Myrmicinae, in Mexico 1129 proteolytic-enzyme inhibitor in 960 saliva in, smooth-muscle-contracting substances in 263 salivary glands in 2477 seasonal abundance of 3061 spermatogenesis in 3071 taxonomy of 2476 Trypanosoma vivax in, infectivity of 2466 veterinary importance of 3060 weight of eggs and females of 713 Boophthora erythrocephala (see Simulium erythrocephalum)

Boopia, on Marsupialia, in Western
Australia 2565 Boopiidae, on Marsupialia, in Western Australia 2565 borealis, Polyplax Boric acid against Blattaria 788 Blattella germanica, in dwellings 796

Monomorium pharaonis 693, 2726

Borneol (see Bicyclo[2.2.1]heptan-2-ol, 1,7,7trimethyl-, endo-)

Borrelia duttoni, in, Ornithodoros moubata,
transmission of 3060

Recordia progressi Borrelia recurrentis, in, Pediculus spp., transmission of 34 Borrelia theileri, in, Boophilus microplus, transmission of 3060 Bos indicus (see Zebu) Bos indicus × B. taurus Amblyomma americanum on development of 19 fecundity of 1936 1936 Boophilus microplus on in Queensland 259 resistance to 260 Haemaphysalis longicornis on, resistance to 3079 tick control on 258, 259

Bos taurus (see Cattle)

Bos taurus × B. indicus

Anaplasma marginale in, in Queensland 961 Boophilus microplus on hyperemia caused by 3073 in Queensland 961 resistance to 2742 Chrysomya bezziana on, effects of 663 in USA 3024
in ponds, effects of insect growth
regulators on 3024 Bothriuridae, in Argentina 1477

	Brazil contd.	British Columbia contd.
in Argentina 1477	Lutzomyia contd.	Eadiea neurotrichus in, on Neurotrichus
metasomatic glands in 524	L. llanosmartinsi in, on man 1257	2236
Bothriurus araguayae	malaria control in 1202	entomology in 2539
in Brazil 744	malaria in 1767	British Isles
taxonomy of, raised from subspecies of B.	Mansonia pseudotitillans in, viruses in	Aculeata in 691
asper 744	. 2898	Mesostigmata in 302
Bothriurus asper araguayae, taxonomy of,	mites in	Parasitinae in 1960
raised to specific rank 744	in house dust 3094	Vespinae in, book 484
Bothriurus bonariensis, taxonomy of 744 Botswana	on rodents 2491	Bromeliaceae
Demodex cafferi in, on African buffalo	Musca domestica in, bacteria in 479	Culicoides pancensis on, in Colombia 2141
2241	onchocerciasis in 870	Triatoma melanocephala on, in Brazil
Glossina spp. in 2163	Ophyra aenescens in, bacteria in 479	2296
G. morsitans in 872	Panstrongylus megistus in, in dwellings 812	bromeliae, Aedes
Botulism (see also Clostridium botulinum)	Polygenis tripus in, natural enemies of	bromius, Tabanus
Boutonneuse fever, tick transmission of	3185	Bromocet (see Pyridinium, 1-hexadecyl-,
3137	Sabethes belisarioi in, viruses in 2898	bromide)
Bovicola bovis (see Damalinia bovis)	Simulium spp. in	Bromocyclen (5-(bromomethyl)-1,2,3,4,7,7-
Bovicola ovis (see Damalinia ovis)	filariae in 1580	hexachlorobicyclo[2.2.1]hept-2-ene)
Bovine epizootic abortion, causal agent,	on man 1269	against Charletialla blaksi on set 515
Chlamydia implicated as 267 bovinus, Tabanus	S. argentiscutum in	Cheyletiella blakei, on cat 515 Ctenocephalides felis, on cat 2325
bovis, Bovicola (see Damalinia bovis)	nematodes in 2399	Sarcoptes scabiei, on pig 1959
bovis, Chorioptes	on man 2399	Bromophos (O-(4-bromo-2,5-dichlorophenyl
bovis, Damalinia (Bovicola)	S. sanguineum in 870	O,O-dimethyl phosphorothioate)
bovis, Demodex	S. spinibranchium in 2155	against
bovis, Hypoderma	Siphonaptera in, on rodents 1751	Blattaria 788
Boydaia nigra	Solenopsis invicta in, natural enemies of	Cimex lectularius 1184
in USA (Hawaii) 2237	1627	Dermestes maculatus, in poultry
on Passer domesticus, in Hawaii 2237	S. saevissima in, natural enemies of 1627	housing 3057
Brachicoma devia, in China 216	Stemotabanus spp. in, on man 2187	Musca domestica 773, 2191
Brachinus costipennis, in USA 415 Brachistosternus	Stomoxys calcitrans in, on horse 1908 systematic entomology in 1989	Stomoxys nigra, on cattle 203
in Argentina 1477	Triatoma spp. in 2574	in building materials, persistence of 773 resistance to, in, <i>Musca domestica</i> , in
metasomatic glands in 524	T. infestans in	German Democratic Republic 3350
brachyantherum, Eusimulium (see Simulium	in dwellings 812, 2293, 2294	Bromophos-ethyl (O-(4-bromo-2,5-
brachyantherum)	on man 3167	dichlorophenyl) O,O-diethyl
brachyantherum, Simulium (Eusimulium)	T. melanocephala in, flagellates in 2296	phosphorothioate)
Brachycera, in Nearctic region, book 2587	T. sordida in, in dwellings 812	against
Brachydeutera argentata	Triatominae in 811	Amblyomma spp. 703
in USA 1814	in dwellings 807, 1137, 1744, 2299	Boophilus microplus 939
in animal waste lagoons, effects of organic	natural enemies of 42	Bronchial provocation tests, for diagnosis of
pollution on 1814 brachyurum, Diaphanosoma	Trichillum adisi in, on Bradypus 3379	hypersensitivity to house-dust mites 99
bradleyi, Anopheles	Tunga penetrans in, on man 48 Uroxys besti in, on Bradypus 3379	Brucella, in, Ixodidae, transmission of 3413
Bradycardia, in guinea-pig, caused by	braziliensis, Anopheles	Brucellosis, in USSR 3413
Leiurus quinquestriatus venom 309	Bread	Brugia, in, Mansonia spp., transmission of
Bradycellus nitidus, in USA 415	bait component for, Blattella germanica	3225
Bradypodicola, on sloth, in Americas 1632	2541	Brugia malayi
Bradypophila, on sloth, in Americas 1632	dichlorvos in, uptake from air of 2267	control of
Bradypus tridactylus	naled in, uptake from air of 2266, 2267	anthelmintics for 2140
Trichillum adisi on, in Brazil 3379	breinli, Armigeres	vector control for 2057, 2140
Uroxys besti on, in Brazil 3379 brakeleyi, Corethrella	Breinlia booliati	Ander one inheritance of suscentibility
brasiliensis, Triatoma	Aedes aegypti, effects on adipose tissue	Aedes spp., inheritance of susceptibility to 2631
		A. polynesiensis, infectivity of 2036
DESILIENSIS. A ENODSVIIS	of 59	
brasiliensis, Xenopsylla Brassica oleracea var. capitata (see	of 59 A. togoi, effects on adipose tissue of	
Brassica oleracea var. capitata (see	A. togoi, effects on adipose tissue of 59	A. togoi
	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting	
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae)	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra)	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of,	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens)	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium)	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh in China 2140 in Kerala 2057 vectors of 2801
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 A. subalbatus, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Toxorhynchites brevis, Cimex	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 A. subalbatus, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevidens, Simulium (Eusimulium) brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Simulium (see Simulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Whartonia	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 A. subalbatus, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevidens, Simulium (Eusimulium) brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae) brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevis, Cimex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 A. subalbatus, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Cimex brevis, Cimex brevis, Cimicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicoides paraensis in on man 2655, 2656, 2657	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2655, 2656, 2657 viruses in 3224	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 A. subalbatus, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2655, 2656, 2657 viruses in 3224 Haemagogus spp. in	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brasicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Cilicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2655, 2656, 2657 viruses in 3224 Haemagogus spp. in on man 2627	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Demodex brevis, Cimex diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 brumpti, Argas
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2625, 2656, 2657 viruses in 3224 Haemagogus spp. in on man 2627 viruses in 2627	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 C. territans in 384	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 brumpti, Argas Brumptomyia, in Venezuela 419
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2655, 2656, 2657 viruses in 3224 Haemagogus spp. in on man 2627	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384 Culicidae in, natural enemies of 1243	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 brumpti, Argas
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2625, 2656, 2657 viruses in 3224 Haemagogus spp. in on man 2627 viruses in 2627 Haematopinus tuberculatus in, on Asian	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Cimex brevis, Demodex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384 Culicidae in, natural enemies of 1243 Cuterebra grisea in, on Microtus 1340 Depressaria angustati in, on Cicuta	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 Brumptomyia, in Venezuela 419 brunnea, Periplaneta
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Cullicinae in 2072 Cullicoides paraensis in on man 2627 viruses in 3224 Haemagogus spp. in on man 2627 viruses in 2627 Haematopinus tuberculatus in, on Asian buffalo 2250 Lepiselaga crassipes in, on man 2187 Lutzomyia amazonensis in 1256	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384 C. territans in 384 Culicidae in, natural enemies of 1243 Cuterebra grisea in, on Microtus 1340 Depressaria angustati in, on Cicuta douglasii 2617	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 Brumptin, Argas Brumptomyia, in Venezuela 419 brunnea, Periplaneta brunneri, Gromphadorhina) brunneri, Gromphadorhina brunneri, Gromphadorhina
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Culicinae in 2072 Culicoides paraensis in on man 2655, 2656, 2657 viruses in 3224 Haemagogus spp. in on man 2627 viruses in 2627 Haematopinus tuberculatus in, on Asian buffalo 2250 Lepiselaga crassipes in, on man 2187 Lutzomyia amazonensis in 1256 L. davisi in 2390	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens) brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, and a brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384 C. territans in 384 Culex douglasii 2617 Dermatophagoides farinae in, in house	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 brumpti, Argas Brumptomyia, in Venezuela 419 brunner, Periplaneta brunneri, Elliptorhina (Gromphadorhina) brunneri, Elliptorhina (see Elliptorhina brunneri, Tabanus autumnalis
Brassica oleracea var. capitata (see Cabbage) brassicae, Barathra (see Mamestra brassicae, Brevicoryne brassicae, Mamestra (Barathra) Brazil Aedes spp. in, viruses in 2898 Anopheles cruzii in 1202, 1203, 1204 A. darlingi in 1767 on man 1793 arboviruses in 2897 Chagas' disease in 811 Chagasia bonneae in, on man 1769 Chrysomya spp. in 195 Cochliomyia macellaria in, bacteria in 479 Culex spp. in, viruses in 2898 C. adamesi in 584 C. machadoi in 2049 C. quinquefasciatus in, on man 2383, 2655, 2656, 2657 Cullicinae in 2072 Cullicoides paraensis in on man 2627 viruses in 3224 Haemagogus spp. in on man 2627 viruses in 2627 Haematopinus tuberculatus in, on Asian buffalo 2250 Lepiselaga crassipes in, on man 2187 Lutzomyia amazonensis in 1256	A. togoi, effects on adipose tissue of 59 Armigeres durhami, not affecting refractoriness to Brugia malayi 1774 A. subalbatus, not affecting refractoriness to Brugia malayi 1774 Brevicoryne brassicae, control of, insecticides for 2507 brevidens, Eusimulium (see Simulium brevidens, Eusimulium (see Simulium brevidens, Simulium (Eusimulium) brevihamata, Eadiea brevipalpis, Glossina brevipalpis, Glossina brevipalpis, Toxorhynchites brevis, Cimex brevis, Whartonia brevitarsis, Culicoides Brewers' yeast diet component for Aedes detritus 368 Anopheles annularis 2059 British Columbia Aedes togoi in, natural enemies of 397 Anopheles punctipennis in 384 Culex tarsalis in 384 C. territans in 384 Culicidae in, natural enemies of 1243 Cuterebra grisea in, on Microtus 1340 Depressaria angustati in, on Cicuta douglasii 2617	A. togoi counting ingested microfilariae of 2909 infectivity of, strain differences in 2885 transmission of 2906 Anopheles sinensis, transmission of 2140 Armigeres durhami, not infective 1774 Man in Andhra Pradesh 102 in China 2140 in Kerala 2057 vectors of 2801 Brugia pahangi in Aedes spp., inheritance of susceptibility to 2631 A. polynesiensis, infectivity of 2036 A. togoi, infectivity of, strain differences in 2885 Brugia patei in Aedes togoi, development of 68 Anopheles atroparvus, development of 68 Brumptin, Argas Brumptomyia, in Venezuela 419 brunnea, Periplaneta brunneri, Gromphadorhina) brunneri, Gromphadorhina brunneri, Gromphadorhina

Dulley Many	Downer and d	Duthotus indoines in Israel 1001
Bubas bison	Burma contd.	Buthotus judaicus, in Israel 1981
in France 2207	Mesostigmata in	Buthotus minax occidentalis
larval behaviour in 2207	on Bandicota 2478	development in 743
nest construction in 2207	on Rattus 1962	pullus in 743
Bubas bubalus	on Suncus 2775	Buthotus trilineatus
in Egypt 3374	Trombiculidae in	in Zimbabwe 1428
in France 2207	on Bandicota 2479	on man, stings by 1428
larval behaviour in 2207	on Rattus 2479	Buthus, on man, in India 1007
nest construction in 2207	burmeisteri, Solenopotes	Buthus eupeus (see Mesobuthus eupeus)
Spirocerca lupi in, in Egypt 3374	Burning, of pastures, effects on Aedes of	Buthus occitanus
bubulus, Sarcoptes scabiei (see S. scabiei)	79	activity in, rhythm of 315
buccinator, Arrenurus	burnsi, Leptotrombidium pallidum	in Spain 1427
	bursa, Bdellonyssus (see Ornithonyssus	
Budgerigar (Melopsittacus undulatus)	bursa)	in Tunisia 2255
Dermoglyphidae on, in Japan 288	bursa, Ornithonyssus (Bdellonyssus)	on man, in Spain 1427
Knemidokoptes pilae on, in Queensland	bursa, Rhipicephalus	telson in, abnormalities in 2255
1663	Bursera delpechiana, insecticidal activity of	temperature preferences in, effects of
Tyrophagus putrescentiae on, in Japan	oil from 2879	prostaglandins on 3116
288	Bursicon	Buthus quinquestriatus (see Leiurus
buelowi, Guntheria	in insects, book 3144	quinquestriatus)
buettikeri, Corethrella	in Rhodnius prolixus, relation of	Butonate (2,2,2-trichloro-1-
Buffalo, African (Syncerus caffer)	neurohormone release and 2856	(dimethoxyphosphinyl)ethyl butanoate)
Demodex cafferi on, in Botswana 2241	Burundi, Siphonaptera in, on rodents 49	against, Haematopinus suis, on pig 802
Theileria mutans in, in East Africa 2474		Butter
Buffalo, Asian (Bubalus bubalis; water	Butacarb (3,5-bis(1,1-dimethylethyl)phenyl	amitraz in, residues of 696
	methylcarbamate)	
buffalo)	against, Lucilia cuprina 194	naled in, uptake from air of 2266
ectoparasites of, in Philippines 2813	1,4-Butanediamine, N,N'-bis(3-	sec-Butyl alcohol (see 2-Butanol)
Haematopinus tuberculatus on, effects of	aminopropyl)-, in Ornithodoros savignyi	Butyric acid (see Butanoic acid)
2250	spermatophore 1402	bycalia, Laelaps
Ixodidae on, in Egypt 2752	Butanedioic acid, in Cochliomyia macellaria,	Byssodon maculata (see Cnephia maculata
Peaton virus in, antibodies to 1253	accumulating during anaerobic	caballus, Aedes
Psoroptes ovis on, in Indonesia 2806	metabolism 1359	Cabbage (Brassica oleracea var. capitata)
Sarcoptes scabiei on	Butanedioic acid, [(dimethoxyphosphinothio-	Periplaneta americana on, feeding by 2
in Indonesia 2806	yl)thio]-, diethyl ester (see Malathion)	Caccobius krikkeni
transfer to man of 3417	Butanedioic acid, hydroxy-, in Cochliomyia	sp. nov., description of 917
Tibrogargan virus in, antibodies to 3303	macellaria, decreasing during anaerobic	in Kenya 917
Buffalo (Asian) dung, Drepanocerus	metabolism 1359	
kazirangensis in, in Assam 2724	Butanedioic acid, [[methoxy(methylthio)pho-	in African elephant dung, in Kenya 91
Buffalo dung, Onthophagus kingstoni in, in	sphinyl]thio]-, diethyl ester, in malathion	Cache Valley virus
Kenya 917	formulations, determination of 526	in
Bufo bufo, Lucilia bufonivora on, in	Butanedioic acid, oxo-, in Cochliomyia	Aedes spp., in New York State 3246
Netherlands 222	macellaria, unchanged during anaerobic	A. taeniorhynchus, in Jamaica 845
bufonivora, Lucilia	metabolism 1359	Anopheles spp., in New York State
Building materials, insecticides on,	Butanoic acid	3246
persistence of 203, 2039	Cochliomyia hominivorax responses to	A. grabhamii, in Jamaica 845
Buildings	1896	Culicidae, in Manitoba 1809
Blattaria in, in UK 1141	repellent for, ovipositing mosquitoes	Culiseta inornata
Blattella germanica in, assessing	1209	replication of 104
infestations of 2541	2,2,2-trichloro-1-(dimethoxyphosphinyl)et-	
Culiseta annulata in, in District of	hyl ester (see Butonate)	transovarial transmission of 104
Columbia 3248	Butanoic acid, 4-amino-	Cachexia, in Asian buffalo, caused by
insect pests in, in UK 1139	in Periplaneta americana	Haematopinus tuberculatus 2250
pest control in 1145	effects on activity of head ganglia	cadaverina, Pyrellia
buisseti, Simulium	neurons of 2845	caedens, Orchopeas
Bulgaria	effects on central neurons of 2842	Caenopsylla
Coleoptera in, helminths in 689	effects on giant interneurone synapses of	distribution of 2335
Diptera in, in cattle farms 902	2559	on Ctenodactylidae, in northern Africa
Gamasoidea in, on small mammals 1659	Butanoic acid, 2-amino-4-(methylsulfinyl)-,	2335
Haematopota csikii in 17	in Culex pipiens, effects of	Caenopsylla laptevi
Scarabaeidae in, in cattle dung 1385	Romanomermis culicivorax on 1229	distribution of 2335
Trombiculidae in, on small mammals	Butanoic acid, 2-[[2-chloro-4-	hosts of 2335
1664	(trifluoromethyl)phenyl]amino]-3-methyl-,	in France 2335
bullata, Sarcophaga	cyano(3-phenoxyphenyl)methyl ester,	on Oryctolagus cuniculus, in France
α-Bungarotoxin, in Musca domestica,	against, Musca domestica 1442	2335
binding of 2194	Butanoic acid, 2-[[2-fluoro-4-	caesar, Lucilia
Bunting, white-headed (see Emberiza	(trifluoromethyl)phenyl]amino]-3-methyl-,	Caffeic acid (see 2-Propenoic acid, 3-(3,4-
spodocephala)	cyano(3-phenoxyphenyl)methyl ester,	dihydroxyphenyl)-)
Bunting, yellow-throated (see Emberiza	against, Musca domestica 1442	cafferi, Demodex
elegans)	Butanoic acid, 3-methyl-, Culex oviposition	caja, Arctia
Bunyamwera viruses, in, Culex tarsalis, in	responses to 1209	cajennense, Amblyomma
California 2081	Butanoic acid, 3-methyl-2-(4,5,6,7-	calcaratus, Boophilus
Bunyaviridae, in, Aedes triseriatus,	tetrafluoro-2,3-dihydro-1H-indol-2-yl)-,	calcarhebes, Ixodes
transmission of, molecular basis of 2630	cyano(3-phenoxyphenyl)methyl ester,	calcarifer, Ceratophyllus (see Megabothris
Bunyavirus, in, Culicidae, in French Guiana	against, Musca domestica 1442	calcarifer)
1154	2-Butanol, Cochliomyia hominivorax	calcarifer, Megabothris (Ceratophyllus)
Buphagus erythrorhynchus	responses to 1896	Calcarmyobia australasiae
acaricides in, toxicity of 1643	butantanensis, Hirstionyssus	sp. nov., description of 301
preying on	2-Butenamide, N-ethyl-N-(2-methylphenyl)-	in Australia 301
Boophilus decoloratus, in South Africa	(see Crotamiton)	on Miniopterus australis, in Queensland
2468	2-Butenoic acid, 3-[(dimethoxyphosphinyl)o-	301
Ixodidae, in South Africa 1643	xy]-, 1-phenylethyl ester, (E)- (see	Calcarmyobia miniopteris
Rhipicephalus appendiculatus, in South	Crotoxyphos)	in Australia 301
Africa 2468	2-Butenoic acid, 3-[[(ethylamino)methoxyph-	on Chalinolobus gouldii, in Australia
Burenella dimorpha		301
in	osphinothioyl]oxy]-, 1-methylethyl ester,	
Solenopsis geminata	(E)- (see Propetamphos) Buthidae	on Miniopterus schreibersii, in Australia 301
infectivity of 3388	biology of 745	taxonomy of, characters distinguishing C
transmission of 3388	digital macrochaetae in 308	australasiae and 301
Burma Aedes segunti in natural enemies of	in Argentina 1477	Calcarmyobia rhinolophia
Aedes aegypti in, natural enemies of 1247	in Cuba 745	in Kenya 301
	in Mexico 1676	on Rhinolophus lobatus, in Kenya 301
Hoplopleuridae in, on small mammals	in Zimbabwe 1428 Buthotus, in Zimbabwe 1428	calceatus, Ctenophthalmus
1770	Buthotus, in Zimbabwe 1428	calcitrans, Stomoxys

Subject Thuex		4/
Calcium	California contd.	Calliphora vicina contd.
in Blaberus craniifer, uptake by	Trixacarus caviae in, on guinea-pig 510,	on sheep, in Australia 164
sarcoplasmic reticulum vesicles of	1979	parasitised by
2549	California encephalitis (see Encephalitis,	Aclista alticollis, in Romania 453
in camel blood, effects of Haematopinus	California)	Nasonia vitripennis 2461
tuberculatus on 1175	California viruses	polar granules in 462
in Rhodnius prolixus, dependence of	in	pole cells in 462
salivary apyrase on 1509	Aedes melanimon, in California 2081	proteins in, developmental changes in
in Simulium breeding water 2666		
	Aedinae, in New York State 3246	1916
Calcium sulfide (Ca(S _x))	californicum, Trichogramma	rectum in, recycling of electrolytes in
against	californicus, Dicrotendipes	2175
Demodex cati, on Uncia uncia 2234	californicus, Geomydoecus	salivary glands in 2477
Trixacarus caviae, on guinea-pig 510,	caliginea, Glossina	sex ratio in 1599
California	callidum, Simulium	sex-related differences in 1599
	callidus, Chrysops	vitellins in, properties of 2704
Aedes spp. in in irrigated pastures 2088	Clastridium hatulinum in in Washington	vitellogenins in, properties of 2704
in wildlife areas 2121	Clostridium botulinum in, in Washington	Calliphora vomitoria
A. dorsalis in, in salt marshes 2087	State 2186 control of, traps for 895	courtship in 2717 in USA 1346
A. melanimon in 79	ecdysone analogues in, activity of 2782	mating in 2717
viruses in 2081	in New Caledonia 3339	Calliphoridae
A. nigromaculis in 79, 2084, 2111	in Thailand 662	book 322
A. sierrensis in 1192	on pheasant, in Washington State 2186	in Azerbaijan 899
in tree holes 2108	parasitised by, Aclista alticollis, in	in Liaoning 214
	Romania 453	in Missouri 1346
Anopheles franciscanus in, nematodes 2083		
A. freeborni in	taxonomy of 3339	in New Caledonia 3339 in Nigeria 2003
in rice-fields 2093	wings in, morphometric characters of 1352	in Thailand 662
nematodes 2083	Calliphora albifrontalis	in Agelaius phoeniceus nests, in Manitol
arbovirus surveillance in 2080	in Australia 164, 165	864
Blattella germanica in, in dwellings 796	on sheep	preyed on by, Crabro advena 1923
Catallagia sculleni in, bacteria in 2319	in Australia 164	Calliphorin, in Calliphora vicina,
cattle dung in, control of 1932	in Western Australia 165	developmental changes in 1916
Centruroides sculpturatus in,	Calliphora augur	Calliphorinae, in Thailand 662
introductions of 2495	biology of 2698	Callistopsyllus, taxonomy of 1750
Chaoborus astictopus in 2414, 3013	descriptions of 893	Callitroga macellaria (see Cochliomyia
Chironomidae in 1911, 2118, 2412, 3013	in Australia 164, 2698	macellaria)
in flood-control channels 3346	on sheep, in Australia 164	Callopsylla caspia
in flood-control systems 2413	Calliphora erythrocephala (see C. vicina)	in USSR 355
on man 912	Calliphora hilli	on field voles, in Caucasus 355
Chironomus decorus in 670	in Australia 164	population dynamics of 355
Culex erythrothorax in 3241	on sheep, in Australia 164	Yersinia pestis in, in Caucasus 355
C. pipiens in, viruses in 2081	Calliphora nociva	Callopsylla kazbegiensis
C. quinquefasciatus in 3241	in Australia 164, 165	sp. nov., description of 816
in cemetery vases 2916	in human cadavers, development of 3037	in USSR 816
in storm drains 2113	on sheep	on Apodemus sylvaticus, in Georgia
C. tarsalis in 380, 590, 2084, 2101, 2111,	in Australia 164	(USSR) 816
2119	in Western Australia 165	Callosciurus erythraeus, Enderleinellus
in irrigated pastures 2088	Calliphora stygia	corrugatus on, in China 558
in irrigation canals 2345	descriptions of 893	Callus, insect moulting hormone production
in rice-fields 2093, 2115	in Australia 164	in 3130
in salt marshes 2087	moulting hormones in, biosynthesis of	Caloglyphus berlesei
viruses in 2081, 3241	889	pleomorphic males of
Culicidae in 2118	on sheep, in Australia 164	pheromone suppressing production of
in catch basins 2088	Calliphora vicina	2481
in dairy-waste lagoons 2120	aging of, mimicking by y-radiation of	selective advantage of 2482
Culicoides occidentalis in 2385	219	Caluromys, yellow fever, virus in, in Brazil
Culiseta incidens in, in cemetery vases	attraction of, to hornet nests 1631	2627
2916	body movements and retinal pattern	calvescens, Laelaps
C. inornata in 2084, 2111	displacements in 1620	calvus, Chrysops
nematodes 2083	brain in 887	Calyptra eustrigata
Cuterebra lepivora in 2165	peptides in 2711	feeding behaviour in 916
Demodex zalophi in, on zoo Zalophus	control of, insecticides for 1440	in South-East Asia 1632
californianus 2228, 2229	diapause in, inheritance of 894	mouthparts in 916
encephalitis surveillance in 1225	enzymes in 882, 1761, 2189	Camel (Camelus bactrianus and C.
Eutrombicula batatas in 982	eyes in 2714	dromedarius)
Geomydoecus spp. in, on Thomomys 31,	UV sensitivity of 2177	Cephalopina titillatrix on
1171	feeding behaviour in, effects of fixation on	distribution pattern of 3332
human babesiosis in 3397	201	in Mongolia 1996
Ixodes pacificus in 269	flight in, regulation of 3045, 3046	Haematopinus tuberculatus on, effects or
on Reithrodontomys 1650	gut in 1605	blood of 1175
Leptoconops foulki in, natural enemies of	passage of proteins through 200	Ixodidae on
415	hemolymph in, developmental changes in	in Egypt 2752
mosquito control in 574, 1225, 1782,	882	in Iran 2211
1801, 3203	in Australia 164	Oestroidea on, book 2691
mosquito surveillance in 2080	in Romania 453	pest control on, acaricides for 3093
Musca autumnalis in, in cattle dung	in USA 1346, 1631	Rhipicephalus pulchellus on, in Somalia
1598	in USSR 894	251
Opisodasys keeni in, bacteria in 2319	insect growth regulators in, effects on	Sarcoptes scablei on, in Haryana 3093
Ornithodoros coriaceus in	protein and nucleic acid synthesis of	Trypanosoma evansi in
bacteria in 267	3354	in Chad 1303
viruses in 266	landing response in 1361	in Ethiopia 1306
Ornithonyssus sylviarum in, on fowl	moulting hormones in	Camelus hactrianus (see Camel)
Pediculus capitis in on man 1408	analysis of 753	Camelus dromedarius (see Camel)
Percent support of the second support of the	developmental changes in 667	Camelus dromedarius (see Camel)
Peromyscus maniculatus in, arthropod	effects on protein and nucleic acid	cameroni, Spalangia Cameroon
Psoronbora columbiae in 2084 2111	synthesis of 3354	Glossina spp. in 2404
Psorophora columbiae in 2084, 2111	movement detection system in 1361	G. caliginea in 2688
Simulidae in 2118 Simulium tescorum in, on man 2664	muscles in, hormonal regulation of metamorphosis of 2180	G. palpalis in 1700
Supella longipalpa in, natural enemies of	Naja mossambica venom in, toxicity of	Campanulotes, on pigeon 1495
1737	200	Campbell Island (indexed under New
Tabanidae in 2444	neurosecretory system in 887	Zealand Island Territories)
		,

campestris, Aedes campestris, Hypsophthalmus campestris, Lyctocoris Camphechlor (see Toxaphene) Camphor (see Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-) Camponotus, mimicked by Myrmarachne platypalpus 793 Camponotus abdominalis, preying on, Tityus serrulatus 3433 Canada (see also individual Provinces and Territories) acarologists in, directory 2269 Culicidae in, book 1533 entomological research in entomological research in 2510
entomologists in, directory 2269
entomology in, book 2539
insect fauna of, effects of human
settlement on 2000
insect pests in 782
canadensis, Aedes
canariense, Simulium (see S. pseudequinum)
canariensis, Pseudolynchia
Canary (Serinus canarius) Canary (Serinus canarius) Sternostoma tracheacolum on diagnosis of 1413 in UK 2759 Canary Islands Culicidae in 2071, 2941 Muscidae in 1374 Candida albicans, in, man, hypersensitivity to 3108 candidiensis, Anopheles jeyporiensis (see A. jeyporiensis) canestrinii, Ornithodoros canicularis, Fannia caniculi, Notoedres canis, Ctenocephalides canis, Demodex Canis familiaris (see Dog) Canis latrans Amblyomma americanum on, in Oklahoma 2465 Malassezia pachydermatis in, in New York State 2240 Sarcoptes scabiei on, in New York State 2240 canis, Sarcoptes scabiei (see S. scabiei) canis, Trichodectes cantans, Aedes cantator, Aedes Cantharidin in horse, diagnosis of poisoning by 230 in sheep, diagnosis of poisoning by 230 Canthaxanthin (see β,β-Carotene-4,4'-dione) Caparinia algirus sp. nov., description of 284 in Spain 284 on Aethechinus algirus, in Spain 284 Caparinia erinacei in Kenya 2239 on Erinaceus albiventris, in Kenya 2239 capensis, Fucellia capensis, Ornithodoros capillatus, Solenopotes capitis, Pediculus caponis, Lipeurus Capra hircus (see Goat)
caprae, Demodex
caprae, Sarcoptes scabiei (see S. scabiei) Capreolus capreolus
arthropod pests of, in German Democratic
Republic 1721
Cephenemyia stimulator on, in Italy 10 Hybomitra turkestanica on, in Ukraine 1024 caprilesi, Culicoides Caproic acid (see Hexanoic acid) Capromylichus, descriptions of Capromylichus cubanus descriptions of 1952 1952 on Capromys auritus 1952 on Capromys prehensilis 1952 Capromys auritus, Capromylichus cubanus on 1952 Capromys melanurus, Cubanochirus elongatus on 1952 Capromys prehensilis Capromylichus cubanus on Cubanochirus elongatus on 1952 Carabidae helminths in 489 in Uzbekistan 316

Carabidae contd. preyed on by, Loxosceles reclusa, in Iowa 3430 Carbamic acid, (5-benzoyl-1H-benzimidazol-2-yl)-, methyl ester (see Mebendazole) Carbamic acid, dimethyl-2-(diethylamino)-4-nitrophenyl ester insecticidal activity of 2507 synthesis of 2507 Carbamic acid, ethyl-, 3-[(3,7-dimethyl-7-methoxy-2-octenyl)oxy]phenyl ester, (E)-, in Musca domestica, inhibition of juvenile hormone esterase by 2795 Carbamic acid, [2-(4-phenoxyphenoxy)ethyl-]-, ethyl ester, against, Culex pipiens, in ponds 3436 Carbaryl (1-naphthalenyl methylcarbamate) against Amblyomma americanum 3059 Culex quinquefasciatus 3269 Euproctis chrysorrhoea 3377 Goniocotes gallinae, on poultry 32 32 Menopon gallinae, on poultry Musca domestica 528 Ornithodoros lahorensis 3410 O. savignyi 2837 Ornithonyssus sylviarum on fowl 2764 on poultry 290 Pediculus capitis 345 on man 347 Sarcoptes scabiei, on camel 3093 in Calliphoridae, relation of microsomal oxidase and tolerance to 2712 in Musca domestica, inducing mixed function oxidase 909 in Periplaneta americana, effects of antibiotics on toxicity of 2505 in poultry, toxicity of 32 on building materials, persistence of 203 resistance to, in Boophilus microplus, in South Africa 939 Ornithonyssus sylviarum, in Israel 290 synergists for, piperonyl butoxide as 2712 Carbidopa ((S)-α-hydrazino-3,4-dihydroxy-α-methylbenzenepropanoic acid) against, Lucilia cuprina 1382 Carbinol, dimethyl- (see 2-Propanol) Carbofuran (2,3-dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate) N-phenylsulfonyl derivatives of insecticidal activity of 2265 Carbohydrates arbonydrates
in Aedes aegypti Malpighian tubules, not
affected by Dirofilaria repens 101
in Culex pipiens hemolymph, effects of
Romanomermis culicivorax on 1229
in Heterometrus scaber venom 3434
in insect diets, requirements for 2834 in Musca domestica larvae, effects of diet on 1364 Carbon dioxide Amblyomma americanum responses to 604 A. maculatum responses to 604 attractant for Coquillettidia perturbans 2614 Coquinettidia perturoans
Culex salinarius 3292
Culicidae 1790, 2060
Culicoides spp. 1842
C. occidentalis 2385
Glossina spp. 1881, 2997 Glossina spp. 1 Muscidae 1881 Stomoxyinae 1881 Tabanidae 1881, 3015 Dermacentor variabilis responses to 604 Haemaphysalis longicornis responses to 2462 in Culicidae effects of California encephalitis virus on susceptibility to 615 role in host-seeking of, review 1792 in Musca domestica, effects on mating of 2188 in Periplaneta americana, effects on insecticide susceptibility of 2848 carbonarius, Chrysops
Carbonate, hydrogen, in Simulium breeding
water 2666

```
Carbophenothion (S-[[(4-
     chlorophenyl)thio]methyl] O,O-diethyl
     phosphorodithioate)
       Amblyomma spp. 703
       Lucilia cuprina, on sheep 169
    resistance to, in, Boophilus microplus, in
South Africa 939
Carbophos (see Malathion)
Carboxypeptidase A
   in Haematobia irritans gut 3369
in Stomoxys calcitrans gut 3369
    in Stomoxys calcitrans salivary glands
        3369
Carboxypeptidase B, in Haematobia irritans
gut 3369
Carboxypeptidase, dipeptidyl, in rat lung,
inhibited by scorpion venom 2499
Carcinops pumilio
   control of, insecticides for 486
   in UK 486
in USA 226
    in dwellings, in England 486
   in poultry dung
in England 486
in North Carolina 226
Carcinus mediterraneus
in France 69
insect growth regulators in, effects of 69 Carex aquatalis, Culicidae associated with, in Quebec 2958
Carex rostrata, Culicidae associated with, in
     Quebec 2958
 Caridina africana
    deltamethrin in, toxicity of 2982
in Upper Volta 2982 carinata, Silpha
Carnivora
   arboviruses in, in Spain 2233
Phlebotominae on, in Panama
Trombiculidae on, in Indiana
                                                 2150
                                                1966
Carnus hemapterus
   in USSR 1021
   on birds, in USSR
Carollia perspicillata
    Ophthalmodex carolliae on, in Suriname
        1002
    Pterodex carolliae on, in Suriname 1001
carolliae, Ophthalmodex carolliae, Pterodex
\beta, \beta-Carotene-3,3'-diol
   (3R, 3'R)-
in Dermanyssus gallinae 800
in Menopon gallinae 800
β,β-Carotene-3,3'-diol, 5,8-epoxy-5,8-
     dihydro-
in Dermanyssus gallinae 800
in Menopon gallinae 800
β,ε-Carotene-3,3'-diol, 5,6-epoxy-5,6-
     dihydro-
   in Dermanyssus gallinae, and in fowl
        800
in Menopon gallinae, and in fowl 800 \beta, \beta-Carotene-4,4'-dione, in fowl, not found
     in lice 800
in lice 800 \beta, \beta-Carotene-4,4'-dione, 3,3'-dihydroxy-,
(3S,3'S)-, in fowl, not found in lice \beta-Carotene (see \beta,\beta-Carotene)
\beta,\beta-Carotene
   in Dermanyssus gallinae, and in fowl
        800
in Menopon gallinae, and in fowl 800 \beta,\beta-Caroten-3-ol
   (3R)-
      in Dermanyssus gallinae, and in fowl
           800
      in Menopon gallinae, and in fowl
Carpets, permethrin in, persistence of 2516
Carpoglyphus lactis
   aggregation in, caused by Lardoglyphus konoi pheromone 3424
        konoi pheromone
   alarm pheromone in 1652 alarm pheromone in 1652 biology of 516 descriptions of 516 in China 516
Carrion, Diptera in, breeding seasons of
     3364
Carrot (Daucus carota)
Periplaneta americana on, feeding by 28
Carvotanacetone (see 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethyl)-)
Carylderm (see Carbaryl)
```

casei, Piophila	Cattle contd.	Cattle contd.
casei, Tyrolichus	Amblyomma americanum on contd.	Corynebacterium pyogenes in, in
caspia, Callopsylla (Ceratophyllus)	rearing of 2467	Netherlands 890
caspius, Aedes	A. cajennense on	Cowdria ruminantium in
caspius, Ceratophyllus (see Callopsylla	distribution pattern of 1126	immunization against 945
caspia)	in Mexico 1460	in Mauritius 958
Cassava (Manihot esculenta)	A. hebraeum on, in South Africa 945	Culex pipiens on, in Honshu 2908
Cassava fermentation pools, Culicinae in, in	A. variegatum on 3060	Culicidae on, in Alberta 1287
Nigeria 602	in Central African Republic 1411	Culicoides spp. on
casta, Rhadinopsylla integella (see R.	in Kenya 1641	in Kenya 1551
integella)	in Nigeria 1108, 3415	in New York State 417
castaneum, Tribolium	amitraz in, residues of 696	C. marksi on, diseases transmitted by
Castor (Ricinus communis)	Anaplasma spp. in, in Costa Rica 3393	2836
Castor oil, bait component for, Musca	A. marginale in	C. venustus on, in New York State 2965
domestica 3018	in Colombia 236	Damalinia bovis on
Cat (Felis domestica)	in Queensland 949	distribution pattern of 2291
Cheyletiella spp. on	in South Africa 950	in New Zealand 2290
in Connecticut 1965	in Spain 3078	in Ontario 1742
in Japan 983	in USA 943	Demodex spp. on
C. blakei on	Anocentor nitens on, in Colombia 2218	effects of 521
in Austria 515	Anopheles franciscanus on, in California	in Nigeria 521
in Japan 288	2083	Diptera on
transfer to man of 1414 Ctenocephalides felis on	A. sinensis on, in Honshu 2907	in France 223
hypersensitivity to 363	arboviruses in, surveillance for 866	in German Federal Republic 465 in Ukraine 1024
in England 2872	Arcyophora spp. on, in Zimbabwe 1632	Douglas virus in, in Queensland 862
in Jordan 365	arthropod pests of	ectoparasites of, in Philippines 2813
Culex pipiens on, in Honshu 2908	in Nigeria 245	Ehrlichia phagocytophila in, in Northern
Demodex spp. on, in Western Australia	in Queensland 16	Ireland 946, 2212
3104	in Wyoming 2525	famphur in, cholinesterase inhibition by
D. cati on, in Massachusetts 279	Babesia spp. in, in Costa Rica 3393	3329
ectoparasites of, transfer to man of 365,	B. bigemina in	famphur on, poisoning of birds by 3009
1417	effects of diminazene aceturate on	fenthion in
Felicola subrostratus on, in Hungary	1069	residues of 1590
2012	immunity to, specificity of 2221	toxicity of 1590
flea collars for, problems caused by 2026	in Australia 947	fly control on 465, 1270
flea control on, insecticides for 2325	in Colombia 236	insecticide-impregnated ear tags for
human hypersensitivity to 1654	in South Africa 948	1367, 2422, 2430, 3010
Ixodes hexagonus on, in Italy 3064	B. bovis in	insecticide-impregnated PVC strips for
I. ricinus on, in Italy 3064	immunity to, specificity of 2221 in Australia 947	441 innesticides for 202 222 1280 1262
Lucilia sericata on, in Missouri 1346 Mesobuthus eupeus venom in, effects on	in Colombia 236	insecticides for 203, 223, 1289, 1362, 2820
blood circulation of 307	in Mexico 1640	pyrethroids for 2446
Notoedres cati on 2837	in South Africa 948	repellents for 1288, 3230
in Indonesia 2806	B. colchica in, effects of diminazene	self-application devices for 1915
Otodectes cynotis on, hypersensitivity to	aceturate on 1069	shelters for 1289
296	B. divergens in	Glossina spp. on, in Gambia 1299
Phthiraptera on, in Afrotropical region,	immunization against 946	G. morsitans on
_ book 1177	in Irish Republic 1635	attraction of 2997
Trypanosoma cruzi in, in Chile 3176	in Northern Ireland 2212	in Gambia 1298, 1305
Cataglyphis aenescens	blood-sucking flies on	G. pallidipes on
Dicrocoelium dendriticum in, in Kirgizia	effects on growth rate of 1521	attraction of 2997
3053 in USSB 2052	effects on milk production of 1521	rearing of 1316
in USSR 3053	bluetongue virus in in Australia 866	G. palpalis on, in Gambia 1298, 1305
Catalase, in Aldrichina grahami microbodies 3366	in Western Australia 2142	Haemaphysalis longicornis on in Honshu 3085
Catallagia charlottensis	Boophilus spp. on	in New South Wales 3079
in USA 2586	in Costa Rica 3393	H. punctata on, in Wales 3086
on Microtus canicaudus, in Oregon 2586	in South Africa 2224	Haematobia irritans on
Catallagia dacenkoi	B. annulatus on	effects on growth rate of 470, 2422
in USSR 2871, 3184	in Egypt 3394	in Georgia (USA) 1367
on small mammals	in French Polynesia 1943	in Kentucky 2430
in Siberia 3184	B. decoloratus on, in South Africa 948	in Ontario 1915
in USSR 2871	B. microplus on	in Texas 3010
Catallagia ioffi	antienzymes to 2217	Haematopinus eurysternus on, in Ontario
in USSR 3184	diseases transmitted by 2836	1742
on small mammals, in Siberia 3184 Catallagia sculleni	distribution pattern of 1126 eosinophils transporting histamine to	Hippobosca spp. on, in Timor 2820 Hyalomma anatolicum on
in USA 2319	attachment sites of 2471	in Egypt 3394
Yersinia pestis in, in California 2319	hyperemia caused by 3073	in Iran 2211
cataneii, Culicoides	immunity to, effects of Babesia on	H. detritum on, in Punjab 962
cataphylla, Aedes	1938	H. dromedarii on, in Egypt 3394
Catch basins	in Andaman and Nicobar Islands	H. truncatum on, sweating sickness
Culex pipiens in, in Indiana 1791	2746	caused by 246
C. quinquefasciatus in, sampling of 2116	in Colombia 700, 2218	Hydrotaea irritans on
Culicidae in, in California 2088	in Jamaica 2463	in Netherlands 890
mosquito control in	in Mexico 1124, 1460, 1640	in UK 3048
Bacillus sphaericus for 2088	in New Caledonia 3068	Hypoderma spp. on
B. thuringiensis for 2088	in New Hebrides 3061	effects on growth rate of 3329
Catering establishments, Blatta orientalis in, in UK 3157	in Queensland 259, 260 in South Africa 948	in Hungary 878 in USSR 3330
Catharsius pithecius, dung burial by 1931	resistance to 2476	H. bovis on
Cathepsin C, in Calliphora vicina	dermal vasculature and 3072	antibodies to 1889
hemolymph, activity pattern of 882	role of histamine in 1395	diagnosis of 652
cati, Demodex	seasonal variation in 959	immunity to 440
cati, Notoedres	transfer from herbage of 964	in Czechoslovakia 2690
Cattle (Bos taurus)	Ceratopogonidae on, in Alberta 1287	in UK 653
Acarus siro in feed of, effects of 1662	Chlamydia spp. in	in USSR 1590, 1591, 2689
Aedes spp. on, in Czechoslovakia 3230	in California 267	H. lineatum on
Akabane virus in, in Queensland 866	tick transmission of 267	antibodies to 1889
Amblyomma americanum on	Chorioptes bovis on	diagnosis of 652
development of 1936	diagnosis of 2761	in Indiana 2407
fecundity of 1936	in Indonesia 2806	in Texas 441

Cattle contd.	Cattle conta.	Carrie dung conta.
Hypoderma lineatum on contd.	Theileria spp. in	Scathophaga stercoraria in
in UK 653	and in wild bovids 1722	in Michigan 2454
in USSR 2689	in Africa 936	in UK 1927
Ixodes ricinus on	in southern Africa 942	movement patterns of 3050
in Irish Republic 1635	in Spain 3078	Sepsis albopunctata in, in Andhra Prade
in Northern Ireland 946, 2212	T. annulata in, immunization against	1914
in USSR 253	944	S. nitens in, in Andhra Pradesh 1914
Ixodidae on	Tibrogargan virus in, antibodies to 3303	Staphylinidae in, in USSR 1057
in Egypt 2752	tick-borne diseases of	Cattle-dung fertilizer, arthopod fauna of, in
in Karnataka 1401	as barrier to efficient land use 1642	Irish Republic 324
Ixodoidea on	control of 2224	Cattle farming, Ixodidae as affected by
immunity to, review 952	in Europe 1948	3411
in developing countries 714	in tropics 1649	
in Europe 1948	tick control on 258, 259, 260, 714, 1649,	Cattle farms
in India 2837	2224	Diptera in, in Bulgaria 902
		fly control in
in South Africa 1645	acaricides for 975, 1888, 2737	baits for 3018
in Timor 2820	economics of 1924	insecticides for 477
in tropics 1649	pyrethroids for 756	Musca domestica in
in Zimbabwe 937	Trypanosoma spp. in	in Delhi 3018
Linognathus vituli on	and in wild animals 1879	
distribution pattern of 2291	fly transmission of 1868	in Egypt 477
effects of 2015	in Chad 1303	in Florida 367
in New Zealand 2290	in Ethiopia 1306	M. sorbens in, in Egypt 477
in Ontario 1742	in Gambia 1298, 1299, 1305	Stomoxys calcitrans in
louse control on 2853	in Mozambique 1307	in Florida 367
Moraxella bovis in, flies increasing	in Niger 1302	in USA 904
susceptibility to 2200	in Senegal 1301	synanthropic flies in, in USSR 1040
Musca autumnalis on	tolerance of 3327, 3328	Cattle feed, Acarus siro in, effects of 166
in Kentucky 2430	T. congolense in, tsetse transmission of	Cattle housing
in Ontario 1915	1870	Anopheles spp. in, in Ukraine 1075
Muscidae on, in Japan 1379	T. vivax in, in Senegal 1300	A. albimanus in, in El Salvador 3243
Oestroidea on, book 2691	Cattle blood	A. culicifacies in, in Rajasthan 609
Onchocerca gibsoni in, fly transmission of	diet component for	Culex spp. in, in Bangladesh 1562
2654	Anopheles albimanus 3236	Diptera in
O. gutturosa in	Glossina palpalis 1104, 1105	in Bulgaria 902
distribution pattern of 128	in Glossina morsitans diet, uptake from	in Yugoslavia 901
in Sudan 1841	mid-gut of 1092	fly control in, insecticide-treated glassfib
O. lienalis in, distribution pattern of 128	Cattle dips, chlorfenvinphos in,	strips for 455
Peaton virus in, in New South Wales	determination of 235	mosquito control in, insecticides for 18
862, 1253	Cattle dung	Musca domestica in
pest control on 2525	Aleochara moesta in 3344	in Florida 455
pyrethrins for 1087	Amitermes wheeleri in, in New Mexico	in German Federal Republic 1356
phenothiazine in, toxicity of 1012	2729	Phlebotominae in, in Bihar 1262
Phlebotomus chinensis on, in China 868	Anoplocephala spp. in, beetle transmission	Phlebotomus argentipes in
Phthiraptera on, in Afrotropical region,	of 686	in Bihar 1260
		in Gujarat 2662
book 1177	Aphodius spp. in, immigration and	
Psoroptes ovis on, effects of grooming on	emigration of 1383	P. papatasi in, in Gujarat 2662
3427	Catharsius pithecius in, burial by 1931	P. perniciosus in, in Italy 764
Raillietia auris on	Cercyon spp. in, immigration and	Cattle milk
in Mexico 1128	emigration of 1383	amitraz in, residues of 696
in Queensland 3102	Coleoptera in	fenthion in, residues of 1590
Rhipicephalus spp. on, in Kenya 1641	in Morocco 3386	naled in, uptake from air of 2266
R. appendiculatus on	successions of 490	Cattle odour
immunity to 1939	Copris siangensis in, in Arunachal	attractant for, Glossina spp. 1881, 1882
in Kenya 3089	Pradesh 2724	1883
R. bursa on, in Spain 3078	coprophagous beetles in, movement	Glossina morsitans responses to 152
R. sanguineus on, in French Polynesia	patterns of 3050	G. pallidipes responses to 152
1943	Diptera in	Cattle pastures
Sarcoptes scabiei on	in Bulgaria 902	Bubas spp. in, in France 2207
in Scotland 2761	in German Federal Republic 465	insect traps for use in 2699
transfer to man of 2761	in Yugoslavia 901	Cattle serum, fetal
Simuliidae on	Dryomyza anilis in 2183	culture-medium component for
effects of 1290	fly control in	Boophilus microplus cell lines 2226
in Alberta 1288, 1289		
Simulium spp. on, in Alberta 1286, 1287	biological 209	Trypanosoma brucei 149 T. congolense 2162
	insect growth regulators for 2436	
S. nigrum on, in USSR 2973	insecticides for 477, 2433	Cattle, zebu (see Zebu)
S. ornatum on, distribution pattern of	Gnathamitermes tubiformans in, in New	caucasicum, Hyalomma asiaticum
128	Mexico 2729	Caves, Phlebotomus chinensis in, in China
Stephanofilaria assamensis in, in	Haematobia irritans in	868
Uzbekistan 1891	effects of moisture on 1903	Cavia cobaya (see Guinea-pig)
Stomoxys spp. on, in Timor 2820	effects of nitrogen content on 2424	caviae, Trixacarus
S. calcitrans on	effects on ammonia loss of 2425	cavipalpus, Ixodes
effects on milk production of 1131	in Georgia (USA) 2699	Cayman Islands
in UK 3048	in USA 1932	Culicoides barbosai in 626
Strobiloestrus spp. on, in South Africa	Hydrophilidae in, attraction of 225	C. furens in 626
1341	Musca autumnalis in 454	Cebus, yellow fever, virus in, in Brazil
Suctarsonemus spp. on, in Mexico 1462	effects of cattle diet on 2441	2627
Suidasia pontifica on, in Mexico 1462	effects of competition on 1598	Cediopsylla, on Sylvilagus 2335
Tabanidae on	effects of dung beetles on 2442	Cediopsylla simplex
blood-feeding by 1899	in USA 1932	in USA 1155, 3145
distribution pattern of 1899	M. vetustissima in, effects of rainfall on	on Sylvilagus floridanus
feeding by 2443	1353	in Indiana 3145
in Alberta 1287		in USA 1155
in Connecticut 1921	Onthophagus gazellus in effects on ammonia loss of 2425	
in Oklahoma 3015		celebensis, Farhangia (Pygiopsylla)
	for control 1932	celebensis, Pygiopsylla (see Farhangia
in Tadzhikistan 205	for fly control 1932	celebensis)
in Ukraine 1078	O. granulatus in, in Australia 2728	Cell lines
in USSR 1376	O. subansiriensis in, in Arunachal Pradesh	Aedes aegypti
Tabanus spp. on, in Czechoslovakia 3230	1629	Getah virus in, replication of 89
tetrachlorvinphos in	Scarabaeidae in	Newcastle disease virus in, infectivity
excretion of 1451	in Morocco 3385	2817
metabolism of 1451	nonulation ecology of 1385	West Nile virus in replication of 80

Cell lines conta.	Cemetery vases	Ceratophyllus garei contd.
Aedes aegypti contd.	Aedes aegypti in, in Venezuela 2643	on Agelaius phoeniceus, in North
yellow fever virus in, replication of	Culex corniger in, in Venezuela 2643	America 4
2637	C. quinquefasciatus in	on Clethrionomys glareolus, in USSR
A. albopictus	in California 2916	1049
arboviruses in, isolating of 2950, 3286	in Venezuela 2643	on small mammals, in Siberia 3184
changes in 3287	sampling of 2116	Ceratophyllus hirundinis, taxonomy of,
characteristics of 1526	Culiseta incidens in, in California 2916	characters distinguishing C. nanshanen
chikungunya virus in, mutants of 836	Central African Republic	and 819
culture methods for 1997	Aedes africanus in, viruses in 2066, 3295	Ceratophyllus laeviceps (see Nosopsyllus
dengue virus in, infectivity of 1526	A. opok in, viruses in 2066, 3295	laeviceps)
Getah virus in, replication of 89	Amblyomma variegatum in, viruses in	Ceratophyllus lebedewi
incorporation of labelled metabolites	1411	in USSR 1688
into 1568	centralis, Glossina morsitans	Yersinia pestis in, in Kirgizia 1688
Inkoo virus in, persistent infection with	Centruroides	Ceratophyllus mokrzeckyi
1839	development in 3432	in USSR 1060
Japanese encephalitis virus in, isolating	in Argentina 1477	on Mus musculus, in Crimea 1060
of 2032	in Cuba 3432	Ceratophyllus nanshanensis
Newcastle disease virus in, infectivity of	oviposition in 3432	sp. nov., description of 819
2817	Centruroides gracilis	in China 819
pH variation in 1566	development in 3432	on Hirundo daurica, in Chinghai 819
Ross River virus in, persistent infection	in Cuba 3432	on Ptyonoprogne rupestris, in Chinghai
with 582	oviposition in 3432	819
Semliki Forest virus in	Centruroides limpidus tecomanus	Ceratophyllus penicilliger (see Amalaraeus
cell fusion caused by 114	enzymes in 522	penicilliger)
effects of pH on 1567	venom of 522	Ceratophyllus rectangulatus (see
pathogenicity of 1569	Centruroides noxius, venom of 2781	Megabothris rectangulatus)
persistent infection with 582, 2639	Centruroides sculpturatus	Ceratophyllus sciurorum
replication of 2376, 2639	control of, pesticides for 2495	antennae in, chemoreceptors on 358
subviral particles from 113	in USA, introductions of 2495	maxillary palps in, chemoreceptors on
Sindbis virus in	in dwellings, in California 2495	358
defective-interfering particles of 835	venom of 2499, 3114	mid-gut in 45
factor antagonistic to 1838	Cephalopina titillatrix	olfactory system in, evolution of 3132
interference in 2961	in Mongolia 1996	Ceratophyllus styx riparius
persistence of 2961	in USSR 3332	in USA (Alaska) 2303
Uukuniemi virus in, persistent infection	on camel	in Riparia riparia nests, in Alaska 2303
with 1839	distribution pattern of 3332	Ceratophyllus tesquorum (see Citellophilus
vesicular stomatitis virus in	in Mongolia 1996	tesquorum)
defective interfering particles of	seasonal abundance of 3332	Ceratophyllus turbidus (see Megabothris
1834 replication of 1835	Cephalosporium, in, Culicidae, in Ukraine	turbidus)
West Nile virus in	1025, 1757 Cephenemyia stimulator	Ceratopogonidae Bacillus thuringiensis in, pathogenicity o
infectivity of 1526	in German Democratic Republic 1721	2086
replication of 89	in Italy 10	conference on 127
A. pseudoscutellaris	on Capreolus capreolus, in Italy 10	Culicinomyces clavosporus in,
Getah virus in, replication of 89	on deer, in German Democratic Republic	pathogenicity of 1829
incorporation of labelled metabolites	1721	in Auckland Islands 1252
into 1568	Cephenemyia trompe	in Campbell Island 1252
pH variation in 1566	control of, insecticides for 3008	in Kenya 1551
Semliki Forest virus in, effects of pH on	in Finland 3008	in Nearctic region, book 2587
1567	on reindeer, in Finland 3008	in Nigeria 2003
West Nile virus in, replication of 89	Ceratophyllus	in South Africa 1248
Boettcherisca peregrina 886 Boophilus microplus 2226, 3412	in Alaska 2330 tracheoles in 2835	in Ukraine 1024, 1079 insecticides in, determining of
Culex quinquefasciatus, arboviruses in,	Ceratophyllus adustus	susceptibility to 3190
infectivity of 1524	in USA (Alaska) 1187	on cattle
Culicidae	in Picoides tridactylus nests, in Alaska	effects on productivity of 1521
review 1468	1187	in Alberta 1287
yellow fever virus in, replication of	Ceratophyllus advenarius (see Megabothris	pathogens of, bibliography 2517
2348	advenarius)	physiological age of, determining of 28'
Glossina morsitans 1470	Ceratophyllus calcarifer (see Megabothris	research on, requirements for 2822
Heliothis zea, Nosema algerae in,	calcarifer)	traps for 97
replication of 112	Ceratophyllus caspius (see Callopsylla	Ceratozetella minimus (see Ceratozetes
Ixodidae, review 1469	caspia)	minimus)
Mamestra brassicae, Nosema algerae in,	Ceratophyllus celsus celsus	Ceratozetella sellnicki
replication of 112	in USA (Alaska) 2303	Anoplocephalata in, in USSR 1081 in USSR 1081
mammals, Baculoviridae in, no effects from 1034	in Riparia riparia nests, in Alaska 2303	
Rhipicephalus appendiculatus, Theileria	Ceratophyllus consimilis (see Nosopsyllus consimilis)	Ceratozetes gracilis Anoplocephalata in, in USSR 1081
parva in, culturing of 1940	Ceratophyllus diffinis	in USSR 1081
Simulium spp., nematode culture in 2381	in USA (Alaska) 1187	Ceratozetes incisellus
Toxorhynchites amboinensis, arboviruses	on Ixoreus naevius, in Alaska 1187	Anoplocephalata in, in USSR 1081
in, infectivity of 589	Ceratophyllus fasciatus (see Nosopsyllus	in USSR 1081
Trichoplusia ni, Nosema algerae in,	fasciatus)	Ceratozetes mediocris
replication of 112	Ceratophyllus gallinae	Anoplocephalata in, in USSR 1081
Cellia	biology of 820	in USSR 1081
chromosomes in, nomenclature of 1545	control of 820	Ceratozetes minimus
taxonomy of 2904		Anoplocephalata in, in USSR 1081
Calladara	destroying breeding sites for 2341	
Cellulase	insecticides for 2341, 2564	in USSR 1081
in Eublaberus posticus gut 1161	insecticides for 2341, 2564 in New Zealand 2312	in USSR 1081 Cercopithecus aethiops, chikungunya virus
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161	in New Zealand 2312 in Poland 2564	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial digestion of 1161	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341 Ceratophyllus garei	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and emigration of 1383
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial digestion of 1161 celsus, Ceratophyllus	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341 Ceratophyllus garei in Canada 864	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and emigration of 1383 Cercyon impressus
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial digestion of 1161 celsus, Ceratophyllus Cement, insecticides on, persistence of 203	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341 Ceratophyllus garei in Canada 864 in USSR 1049, 3184	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and emigration of 1383 Cercyon impressus attraction of, to cattle dung 225
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial digestion of 1161 celsus, Ceratophyllus Cement, insecticides on, persistence of 203 Cemeteries, Aedes aegypti in, in Puerto Rico	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341 Ceratophyllus garei in Canada 864 in USSR 1049, 3184 in Agelaius phoeniceus nests, in Manitoba	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and emigration of 1383 Cercyon impressus attraction of, to cattle dung 225 in Belgium 225
in Eublaberus posticus gut 1161 in Periplaneta americana gut 1161 role of salivary glands in maintenance of 2551 Cellulose carboxymethyl ether in Eublaberus posticus, bacterial digestion of 1161 in Periplaneta americana, bacterial digestion of 1161 celsus, Ceratophyllus Cement, insecticides on, persistence of 203	insecticides for 2341, 2564 in New Zealand 2312 in Poland 2564 in UK 1139, 2341 in USA (Alaska) 1187 on Dendroica coronata, in Alaska 1187 on fowl, in Poland 2564 on man in central Europe 820 in Scotland 2341 Ceratophyllus garei in Canada 864 in USSR 1049, 3184	in USSR 1081 Cercopithecus aethiops, chikungunya virus in, in Central African Republic 2066 Cercyon in cattle dung immigration and emigration of 1383 movement patterns of 3050 Cercyon haemorrhoidalis in UK 1383 in cattle dung, immigration and emigration of 1383 Cercyon impressus attraction of, to cattle dung 225

Chagasia bonneae

gonotrophic cycle in 1769

Cheyletiella parasitivorax 1965 Cercyon impressus contd. Chagasia bonneae contd. in Brazil 1769 in cattle dung, immigration and in Japan 288 in Mexico 2774 emigration of 1383 on man, in Brazil 1769 in USA 3145 Cercyon lateralis Chalinolobus gouldii, Calcarmyobia miniopteris on, in Australia 301 on guinea-pig, alopecia caused by 2774 attraction of, to cattle dung 225 in Belgium 225 on rabbit Cercyon melanocephalus taxonomy of alopecia caused by 2774 attraction of, to cattle dung 225 in Belgium 225 in Japan 288 characters distinguishing Eufilaria and on Sylvilagus floridanus, in Indiana 3145 1573 Cercyon obsoletus in UK 1383 characters distinguishing taxonomy of, characters distinguishing C. Splendidofilaria and blakei and 515 in cattle dung, immigration and Chandlerella chitwoodae Cheyletiella yasguri emigration of control of, acaricides for 12 Cercyon pygmaeus Culicoides stilobezzioides, infectivity of descriptions of attraction of, to cattle dung 225 in Belgium 225

Ceriodaphnia, in ponds, effects of insect growth regulators on 3024 2651 in Italy 12 C. travisi, infectivity of 2651 Changuinola virus, in, Toxorhynchites amboinensis, infectivity of 589 on dog in Italy 12 transfer to man of 1414, 1417 cervi, Lipoptena Chaoboridae on man Cervus, Hydrotaea irritans on, in Irish Republic 2182 Bacillus thuringiensis in, not pathogenic hypersensitivity to 12 3296 pruritus caused by 1417 Cervus elaphus distribution of 2427 Cheyletiellidae, taxonomy of 2480 habitats of 2427 arthropod parasites of, in Spain 1117 arthropod pests of, in German Democratic Republic 1721 parasitised by, Arrenurus spp., in West Germany 468 Chevletus Germany 468
Chaoborinae, Culicinomyces clavosporus in, pathogenicity of 1829 chaetotaxy in 733 Rhabdopedilon longicornis on, in New in Afrotropical region 733 key 506 on Suncus murinus, in Burma 2775 Zealand 1172 Solenopotes burmeisteri on, in New Zealand 1172 Chaohorus distribution of 2 habitats of 2427 2427 Cheyletus bidentatus Cervus nippon, Haemaphysalis longicornis sp. nov., description of 2771 in ponds, effects of insect growth regulators on 2412, 3024 on, in Maritime Territory 3411 in Malaysia 2771 in Hylopetes spadiceus nests, in West Malaysia 2771 Cervus unicolor, Haematopinus longus on, in China 1497 Chaoborus astictopus Cess pits control of, growth regulators for 3013 in USA 2414, 3013 Cheyletus eruditus, distribution of 733 in ponds, distribution pattern of 2414 observing of 2415 prey of 2414 sampling of 2415 Chrysomya chloropyga in, in Tanzania 2928 Cheyletus hendersoni, taxonomy of, characters distinguishing C. tenuipilis and 300 Culex quinquefasciatus in, in Tanzania 2928 Cheyletus malaccensis, distribution of 733 fly control in, traps for 2928
Cesspools, Culex quinquefasciatus in, in
Tamil Nadu 2600
Cestoda 1051, 1081, 1119 Cheyletus pluridens Chaoborus cooki sp. nov., description of 2771 in Malaysia 2771 biology of 2931 in Canada 2931 on Rhinosciurus laticaudatus, in West Malaysia 2771 Anoplocephala 686 preying on, Culicidae, in Alberta 2931 Choanotaenia infundibulum 316, 489 Hydatigera taeniaeformis 1900 Hymenolepis diminuta 366, 1390, 1391, Chara globularis, dominant in ponds without Cheyletus tenuipilis mosquito larvae 384 sp. nov., description of 300 charlottensis, Catallagia charreyroni, Tityus trivittatus in Belgium 300 in Israel 300 in Switzerland 3 1625 Chatia, taxonomy of 3095 Chatia cunninghamae H. nana 1625 in house dust 300

Cheyletus trouessarti, taxonomy of, H. uncinata 689 Moniezia 738, 2517 M. expansa 2837 sp. nov., description of 3095 in USA 3095 characters distinguishing C. tenuipilis Raillietina cesticillus on Tamiasciurus douglasii, in Washington and 300 Rodentolepis erinacei State 3095 Cheyletus woodroffei sp. nov., description of 506 in UK 506 Taenia saginata 123, 488 Cheese, mites in, antigens of 1669 Cestodes, index-catalogue of 1119
CGA-19255 (see 1,3,5-Triazine-2,4-diamine, 6-azido-N-cyclopropyl-N'-ethyl-)
CGA-72662 (see 1,3,5-Triazine-2,4,6-triamine, N-cyclopropyl-) Cheiracanthium, on man, effects of bites by 1478 in bat roosts, in England 506 Cheironitis, in cattle dung, in Bulgaria Chicken (see Fowl) 1385 Chikungunya virus Chelocnetha angustitarse (see Simulium chabaudi, Phlebotomus Aedes africanus, in Central African Republic 2066 angustitarse) Chactidae, in Mexico 1676 Chemosterilants substances tested as: A. albopictus, mutants of 836 A. opok, in Central African Republic Glossina spp. in 1303 aristolochic acid 1755 trypanosomiasis in tri-o-cresyl phosphate 673 2066 Cercopithecus aethiops, in Central African Republic 2066 Chaetopsylla matina cheopis, Xenopsylla genitalia in 1752 Chernetidae, on Neotomodon, in Mexico in Czechoslovakia 1752 in Poland 51, 1752 on Martes martes, in Poland 51 on Vulpes vulpes, in Czechoslovakia 1752 Culex molestus, replication of 85 1458 Cheumatopsyche, in rivers, as indicators of effects of insecticides 1292 in Central African Republic 2066 in West Malaysia 1246 Papio anubis, in Central African Republic 2066 Cheyletidae in Malaysia 2771 taxonomy of 2480 Chaetopsylla wenxianensis sp. nov., description of 361 in China 361 Cheyletiella Chile control of, acaricides for 983, 1965 Chagas' disease in 3176 on Mustela sibirica, in China 361 Triatoma infestans in, flagellates in 3176 on Rattus norvegicus, in China 361 in Connecticut 1965 T. spinolai in, flagellates in 3176 Chagas' disease (see also Trypanosoma in Japan 983 on dog, in Connecticut 1965 China cruzi) book 1504 Aedes spp. in 2605 A. flavopictus in 1559 A. scutellaris in 1765 1559 on man dermatitis caused by 1965 in Japan 983 on rabbit, in Indonesia 2806 Cheyletiella blakei control of Anopheles spp. in 855, 2880
A. sinensis in 2140
Ascoschoengastia spp. in 293
Calliphoridae in 214 in rural areas 326 vector control for 31 epidemiology of 3172 human ecology and 38 control of, acaricides for 515 in Austria 515 human ecology and 36 in Brazil 811 in Chile 3176 in French Guiana 1154 palm trees and 2020 review 3138 Chagasia, collections of, in Oswaldo Cruz Ceratophyllus nanshanensis in 819 in Japan 288 Chaetopsylla wenxianensis in 361 on cat Cratynius yunnanus in, on Hylomys in Austria 515 in Japan 288 transfer to man of 1414 3180 Culex spp. in 2053 Culicidae in 1827, 2349 Culicoides spp. in 2649 Enderleinellidae in, on squirrels 558 on man, transfer from cat of 288 taxonomy of, characters distinguishing C. Foundation, Brazil 1016

parasitivorax and 515

filariasis in 2140

China contd.	Chironomus decorus	Chloride contd.
Gahrliepia latiscutata in, on Eothenomys 3098	control of biological 670	in Calliphora vicina, recycling in rectum of 2175
Genoneopsylla spp. in 2864	growth regulators for 1366, 2412	in Nauphoeta cinerea salivary glands,
Haemaphysalis spp. in 972	insecticides for 3346	transport of 333
H. qinghaiensis in, on goat 265	emergence in 1905	in Simulium breeding water 2666
Haematopinus longus in, on Cervus 1497 Haematopota spp. in 215	entomopox virus in, transovum transmission of 448	Chloroform, methyl- (see Ethane, 1,1,1-
Herpetacarus spp. in 2231	in USA 670, 1366, 1905, 2412, 3346	trichloro-) Chloromethiuron (N'-(4-chloro-2-
Huabangsha megachela in, on Mus 996	in flood-control channels, in California	methylphenyl)-N,N-dimethylthiourea)
Hystrichopsylla rotundisinuata in 2580	3346	against
H. weida in, in small-mammal nests 569	Chironomus kiiensis in Japan 1624	Anocentor nitens, on cattle 2218 Boophilus microplus, on cattle 2218
Ixodidae in 973 Japanese encephalitis in 1827	in rice-fields, effects of fertilizers on	in Buphagus erythrorhynchus, toxicity o
Leptotrombidium spp. in, on small	1624	1643
mammals 2245	Chironomus plumosus Bacillus thuringiensis in, not pathogenic	Chlorophos (see Trichlorphon) Chlorophyta, eaten by Simulium larvae
L. bengbuensis in, on Rattus 3098	1797	1037
L. laxoscutum in, on Pipistrellus 3099 L. nanlingense in, on Rattus 2247	in Canada 1902	Chloropidae
L. nudisensillum in, on Rattus 2246	Octomyomermis itascensis in, in Ontario 1902	in North America 1832 taxonomy of 1832
Macrostylophora hebeiensis in, on	Chironomus riparius	chloropterus, Sabethes
Trogopterus 1188	adults of, maintaining of 3353	chloropus, Ornithomya
M. paoshanensis in, on Sciurotamias 818 malaria in 2880	swarming in 3021 Chironomus thummi (see C. riparius)	chloropyga, Chrysomya Chlorphoxim (7-(2-chlorophenyl)-4-ethoxy-
Muritrombicula dali in, on Rattus 2246	Chiropodomys gliroides	3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-
Muscidae in 1618	Myobia malaysiensis on, in Malaysia	nitrile 4-sulfide)
Neopsylla biseta in, on small mammals	2483 Radfordia chiropodomys on, in Malaysia	against Culicidae 1712
570 Phlebotomus chinensis in 868	2483	Simulium sanctipauli 2678
P. major in 421	chiropodomys, Radfordia	S. soubrense 2678
Ratemia asiatica in, on horse 2855	Chiroptella anhuiensis	Chlorpyrifos (O,O-diethyl O-(3,5,6-trichlor
Sarcophagidae in 213, 216	sp. nov., description of 294 in China 294	2-pyridinyl) phosphorothioate) against
Sergentomyia minuta in 421 Siphonaptera in 567	on Miniopterus schreibersii, in Anhui	Aedes spp., in wildlife areas 2121
on small mammals 568	294 Chirontella subakamushi	A. aegypti 2133 Alphitobius diaperinus, in fowl housin
Trombiculidae in 294, 997, 1667	Chiroptella subakamushi in USSR 1071	687
on Rodentia 2760	on bat, in Uzbekistan 1071	Amblyomma americanum 3059
Walchia spp. in, on Apodemus 1003 W. jiangxiensis in	Chiroptera (see Bat) Chirorhynchobia matsoni	Anopheles spp. 3194
on Apodemus 3100	in Mexico 2243	Blattella germanica 771 Boophilus microplus 939
on Rattus 3100	on Anoura geoffroyi, in Mexico 2243	Chironomidae 3346
chinensis, Phlebotomus Chionanthus virginicus, Vespa crabro on,	Chitin	Culex molestus 401
damage caused by 1631	in Leucophaea maderae, insect growth regulators as inhibitors of synthesis of	C. pipiens 761, 772, 1822 C. quinquefasciatus 2366
Chipmunk, least (see Eutamias minimus)	1453	in pig waste 374
Chironomidae	in Lucilia cuprina larval cuticle, effects of	in storm drains 2113 C. restuans 1822
Bacillus thuringiensis in, pathogenicity of 1250, 2086, 2925, 3296	diflubenzuron on deposition of 911 screening inhibitors of synthesis of 452	Culicidae 1709, 2829, 3209
control of	Chitin synthase (see Acetylglucosaminyltra-	Damalinia bovis, on cattle 1742
biological 1911 growth regulators for 3013	nsferase, chitin-uridine diphosphate) Chlamydia	Haematopinus suis, on pig 1743 Musca domestica 761
non-target effects of 3024	in	Panstrongylus megistus 2018
review 912	cattle, in California 267	Rhodnius prolixus 2018
endosulfan in, toxicity of 3005 fenethacarb in, toxicity of 1530	Ornithodoros coriaceus in California 267	Triatoma infestans 2018 Triatominae, in dwellings 807
in Auckland Islands 1252	transmission of 267	anticholinesterase activity of 761
in California 2118	Chlamydiaceae, tick lysozyme in, effects of	formulations of, controlled release 2829
in Campbell Island 1252 in Culicoides occidentalis mating swarms,	2745 Chloramphenicol, in Periplaneta americana,	fumigant activity of 1743 in building materials, persistence of 773
in California 2385	increasing susceptibility to carbaryl	in mouse, toxicity of 761
in recreational lakes, in USA 912	2505 Chlordonno (1.15.2.25.4.5.5.55.55.66.6	in sugar-cane products, residues of 180
in rice-fields effects of fertilizers on 1624	Chlordecone (1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-1,3,4-metheno-2 <i>H</i> -	on walls, persistence of 401 resistance to, in
in California 2093	cyclobuta[cd]pentalen-2-one)	Culex pipiens 3266
in swamps, effects of insecticides on 2163	against, Monomorium pharaonis 693	in Italy 772 C. quinquefasciatus 1221
Mermithidae in 1134	Chlordimeform (N'-(4-chloro-2-methylphenyl)-N,N-	in Tanzania 2366, 2928
methoxychlor in, toxicity of 2980	dimethylmethanimidamide)	selective toxicity of 761
on Rhododendron, in Pennsylvania 3359 palpal sensilla in 3309	in Schistocerca gregaria, mimicking	Chlorpyrifos-methyl (O,O-dimethyl O-(3,5,
preyed on by	octopamine 1431 Chlorfenethol (4-chloro-α-(4-chlorophenyl)-	trichloro-2-pyridinyl) phosphorothioate) against
fish 1543	α-methylbenzenemethanol)	Blattaria 788
Gambusia affinis, in California 2093 Procladius spp., in Poland 1917	synergist for, DDT 2353, 3238 Chlorfenvinphos (2-chloro-1-(2,4-	Simulium damnosum 2668 S. erythrocephalum 2668
sugar-feeding in 3359	dichlorophenyl)ethenyl diethyl	S. ornatum 2668
symposium on 196	phosphate)	formulations of, microencapsulated 266
Chironomus control of, insecticides for 2413	against Lucilia cuprina, on sheep 169	Choanotaenia infundibulum in, Carabidae 489
in animal waste lagoons, effects of organic	Musca domestica 773	vectors of 316
pollution on 1814	in building materials, persistence of 773	chodukini, Atylotus
in flood-control systems, in California 2413	in Buphagus erythrorhynchus, toxicity of 1643	Cholera, in USSR 3413 Cholest-5-en-3-ol
thyroxine in, effects on development of	in cattle dips, determination of 235	(3β) -
3256	resistance to, in	diet component for, Culex pipiens
Chironomus attenuatus in USA 3342	Boophilus microplus, in South Africa	in Boophilus decoloratus eggs 2210
Microsporidium chironomi in, in Florida	Lucilia cuprina, in Queensland 194	in Periplaneta americana ovaries, effec
3342 Chironomus crassicaudatus	with dioxathion, in Buphagus	of chemosterilants on 1165
emergence in 1905	erythrorhynchus, toxicity of 1643 Chloride	Cholest-7-en-6-one, 3,14-dihydroxy-, $(3\beta,5\beta)$ -, in Heterometrus bengalensis,
in USA 1905	in Amblyomma maculatum 1644	toxicity of 2782

Cholest-7-en-6-one, 2,3,14,20,22,25hexahydroxy-, $(2\beta,3\beta,5\beta,22R)$ - $(\beta$ ecdysone; ecdysterone; 20-hydroxy-aecdysone) immune serum to 787 in Aedes aegypti effects on ovarian development of 408 effects on vitellogenesis of 3268 in Aedes aegypti cell lines, stimulating acetylcholinesterase activity 3262 in Aedes atropalpus inducing ovarian development in decapitated females inducing ovarian development role in ovarian development of in Anopheles freeborni, effects on retention of blood-meal of 848 in Boettcherisca peregrina inactivation and reactivation of suppressing growth of cell lines in Calliphora stygia, precursors of 889 in Calliphora vicina effects on muscle metamorphosis of 2180 effects on nucleic acid synthesis of 3354 effects on protein synthesis of 3354 in Culex pipiens, inducing moulting 407 in Ornithodoros moubata hemolymph 270 in Periplaneta americana, developmental changes in 787 in Rhodnius, causing release of ovulation hormone in Sarcophaga bullata activity pattern of 2173 activity pattern of 2173
inducing vitellogenin synthesis 2701
overcoming vitellogenesis inhibition
by abscisic acid 3360
in Stomoxys calcitrans larvae, activity
pattern of 2418
in Trianthema portulacastrum, production in callus cultures of 3130 Cholest-7-en-6-one, 2,3,14,20,22,26hexahydroxy-, $(2\beta,3\beta,5\beta,22R)$ -, immune serum to 787 Cholest-7-en-6-one, 2,3,14,22,25pentahydroxy- $(2\beta,3\beta,5\beta,22R)$ - $(\alpha$ -ecdysone) fluorometric determination of 753 immune serum to 787 in Periplaneta americana, developmental changes in 787 Cholesterol (see Cholest-5-en-3-ol, (3β) -) Choline, acetyl- (see Ethanaminium, 2-(acetyloxy)-N,N,N-trimethyl-) cholodkovskii, Gnus (see Simulium cholodkovskii) cholodkovskii, Simulium (Gnus)
Choloepus didactylus, Lutzomyia umbratilis
on, in French Guiana 2969 Chorioptes, Dermatophilus congolensis in, transmission of 777 transmission of Chorioptes bovis control of, acaricides for 504, 2761 HCH resistance in, in Scotland 2761 in Indonesia 2806 2761 in UK on cattle diagnosis of 2761 in Indonesia 2806 on goat, in Indonesia 2806 christophersi, Sergentomyia Chromatin, in Periplaneta americana ovaries, effects of chemosterilants on 1165 Chromosomes Aedes 1547
A. togoi 1787, 2905
Anopheles 2899
A. aconitus 1558 A. albimanus 1808 A. aruni 1545 A. culicifacies 81, 119 A. dirus 620, 2921 A. funestus 1545 A. maculipennis complex A. parensis 1545 A. stephensi 601, 2894 2356

Chromosomes contd. Anopheles contd. A. superpictus 770 Argas arboreus 2469 Boophilus annulatus 3071 B. microplus 3071 Ctenocephalides orientis 2581 Culex pipiens group 2646 C. tritaeniorhynchus 1557, 2377 Culicidae 1478 Culiseta longiareolata 388, 1831 Eusimulium 1579 Glossina spp. 148 insects, book 1995 Lucilia cuprina 1897, 2202 Musca domestica 665, 1365 Rhodnius neglectus 1500, 1501 R. neivai 1500, 1501 R. pictipes 1500 R. prolixus 1500 R. robustus 1500, 1501 Sarcophaga hirtipes Scorpiones 1478 3020 Stomoxys calcitrans 450, 3370 Triatoma pallidipennis 1502 Chrysanthemic acid (2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid) laboratory synthesis of 1434 Chrysanthemum cinerariaefolium, pyrethrins in 1434 Chrysanthemumdicarboxylic acid (see Cyclopropanecarboxylic acid, 3-(2-carboxy-1-propenyl)-2,2-dimethyl-) Chrysomya in New Caledonia 3339 in Thailand 662 reproduction in 2381 wings in, morphometric characters of 1352 Chrysomya albiceps in Brazil 195 in Guatemala 2420 mating in 2445 Chrysomya albiceps rufifacies (see C. rufifacies Chrysomya bezziana 893 in Malaysia 2170, 2538 on Bos taurus X B. indicus, effects of 663 on man, in West Malaysia 2170 on zebu, in Malaysia 2538 Chrysomya chloropyga control of, traps for Entomophthora apiculata in, in Nigeria in Brazil 195 in Nigeria 202 in Tanzania 2928 in cess pits, in Tanzania 2928 in pit latrines, in Tanzania 2928 Chrysomya chloropyga putoria (see C. chloropyga) Chrysomya megacephala in Brazil 195 in New Caledonia 3339 in USA (Hawaii) 480 in fowl carcasses, in Hawaii 480 sterilisation of, chemosterilants for 3365 Chrysomya nigripes, descriptions of 893
Chrysomya putoria (see C. chloropyga)
Chrysomya rufifacies
descriptions of 893
in Australia 164, 165
in New Caledonia 3339 on sheep in Australia 164 in Western Australia sex determination in 159 Chrysomya saffranea descriptions of 893 in Australia 164 on sheep, in Australia

Chrysomya varipes

descriptions of 893 164 in Australia 164 on sheep, in Australia 164 Chrysomyinae, in Thailand 662 blood-feeding in, effects on life-span of feeding behaviour in 2443

Chrysops contd. hosts of, visual selection of 1376 in Argentina 1476 in Norway 1907 in Soviet Far East 3348 in USSR 2692, 3040 in Uzbekistan 1070 on cattle, in Connecticut 2443 parasitised by, Trichogramma spp., in New York State 3373 sugar-feeding in, effects on life-span of 1921 Chrysops aberrans, in Canada 2197 Chrysops ater (see C. carbonarius) Chrysops callidus blood-meals in 1899 in USA 1899 on cattle, distribution pattern of 1899 Chrysops calvus, in USA 661 Chrysops carbonarius in USA 2416 ovarian development in 2416 Chrysops dimidiatus, in Gabon 861 Chrysops fuliginosus, in Canada Chrysops longicornis, in Gabon 861 Chrysops mitis in USA 2416 ovarian development in 2416 Chrysops montanus, in Canada 21 Chrysops nigripes, in USSR 2692 Chrysops pictus, in USSR 2694 Chrysops relictus activity in 2409 in USSR 2409, 3336 Tabanomyces milkoi in, in Ukraine 3336 Chrysops silaceus, in Gabon 861 chrysorrhoea, Euproctis Chydorus, in water supply, effects of permethrin on 2713 Chymotrypsin, in Culex pipiens, inhibitors of Cicadellidae, in Culicoides occidentalis mating swarms, in California 2385 Cicuta douglasii, Depressaria angustati on, in British Columbia 2617 Cidial (see Phenthoate) Ciliata 1902, 3136 Lambornella clarki L. stegomyiae 2360 Tetrahymena 429 Ciliates Chironomus plumosus, in Ontario 1902 insects 3136 cilipes, Azelia cilipes, Trichopria (see Aclista alticollis) Cimex on man, antibodies to 562 on rabbit, antibodies to 562 tracheoles in 2835 Cimex adjunctus in USA 2582 in bat dung, in Massachusetts 2582 Cimex brevis in Canada 2863 on Myotis lucifugus, in Ontario 2863 Trypanosoma hedricki in, development of 2863 Cimex hemipterus hempa in, effects of 2300 hepatitis B surface antigens in, excretion of 1511 2301 mycetomes in sterilisation of, chemosterilants for 43 Cimex lectularius biology of 803 bromophos resistance in, not found 1184 control of 1147 insecticides for 1184, 1718, 2562 DDT resistance in, loss of 2572 dieldrin resistance in, loss of 25/2 dieldrin resistance in, persistence of fecundity in 2572 hepatitis B virus in, transmission of 1512, 2006 in India 2562 in UK 1139, 1147 in USSR 1718 in animal housing, in Andhra Pradesh in fowl housing, in Armenia 1718 insecticides in, determining of susceptibility to 3178

		6 10 4 1 4 1
Cimex lectularius contd.	Clethrionomys glareolus contd.	Cochliomyia hominivorax
olfaction in, effects of feeding regime on	Hoplopleura edentula on, in USSR 343	attractants for 1132, 2429
1748	Ixodes ricinus on, in France 3392	bibliography 3362
olfactory system in, evolution of 3132	I. trianguliceps on, in Ukraine 2736	control of 457
on man, in central Europe 803	Neopodocinum mrciaki on, in Poland	baits for 1132, 2169
	729	
trichlorphon resistance in, loss of 2572		insecticides for 1132, 2169
Cimexan (see Malathion)	Siphonaptera on	review 1362
Cimicidae, in Nigeria 2003	in USSR 1049	sterile-insect release for 456, 1919
Cinchonan-9-ol, 6'-methoxy-, $(8\alpha, 9R)$ -, in	removal by host of 2342	in Mexico 456, 1464, 2429
Periplaneta americana, effects on	tick-borne encephalitis, virus in, strains of	in Netherlands Antilles 457, 1132
accessory reproductive glands of 339	3069	in USA 1346, 1362, 1919, 2169
cinerea, Formica	Clethrionomys rufocanus	marking of, fluorescent dyes for 1133
cinerea, Nauphoeta		
cinerea, Nepa	arthropod parasites of, in Maritime	mating competitiveness in 1919
cinereus, Aedes	Territory 3389	on dog, in Netherlands Antilles 457
	Hoplopleura edentula on, in USSR 343	on goat, in Netherlands Antilles 457
Ciodrin (see Crotoxyphos)	Neotrombicula pomeranzevi on, effects on	on man, in Netherlands Antilles 457
Cionella lubrica	skin of 507	on pig, in Netherlands Antilles 457
control of, biological 2727	Clethrionomys rutilus	
Dicrocoelium lanceolatum in, in France		oogenesis in 1342, 1343
2727	arthropod parasites of, in Maritime	Proteus spp. in, role in life-cycle of 1920
Circadian rhythms	Territory 3389	rearing of
Culex quinquefasciatus, flight activity	Hoplopleura edentula on, in USSR 343	diets for 1918
67, 406, 858	Ixodes persulcatus on, encounter rates of	quality control in 1463
	1044	sexual stimulation in, by swormlure-2
Forficula auricularia, activity 315		
Leucophaea maderae	Megabothris calcarifer on, in Alaska	1896
activity 1162	2322	traps for 1464, 2429
locomotion 1168	clethrionomys, Speleorodens	anesthetising of catches in 2434
Phormia terraenovae, proboscis extension	Clostridium botulinum	Cochliomyia macellaria
response 678	in	anaerobic metabolism in 1359
Sarcophaga argyrostoma, eclosion 1600	Calliphora spp., in Washington State	attractants for 2429
Scorpiones, activity 315	2186	bacteria in, in Brazil 479
Triatominae, activity 315		in Brazil 479
	pheasant, in Washington State 2186	
book 20	Wohlfahrtia spp., in Washington State	in Mexico 2429
circularis, Tyrrellia	2186	in USA 1346
circummaculata, Triatoma	clydei, Sergentomyia	in abattoirs, in Brazil 479
circumscriptus, Culicoides	CME-10005 (see Imidazolidine, 1,3-bis(3-	Malpighian tubules in, phosphate
Cismethrin ([5-(phenylmethyl)-3-	chlorophenyl)-2-(trichloromethyl)-)	retention in, sex differences in 671
furanyl]methyl (1R-cis)-2,2-dimethyl-3-	Cnephia	marking of, fluorescent dyes for 1133
(2-methyl-1-propenyl)cyclopropanecarbo-	control of, biological 3313	traps for 2429
xylate)	in Transbaikalia 1067	Cockroach (see Blattaria)
in Periplaneta americana, neurotoxicity of	in Ukraine 1059	codreanui, Eusimulium (see Simulium
3435	in streams, in Newfoundland 3313	codreanui)
in rat, toxicity of 1452	maxillary sensilla in 3309	codreanui, Simulium (Eusimulium)
Cisterns, Culex quinquefasciatus in, in Tamil	pathogens of, in Guatemala 144	Coelenterata, index-catalogue 3148
Nadu 2600	Cnephia dacotensis	Coelomomyces
Citellophilus simplex	in Canada 3311	in
in Czechoslovakia 362	rearing of, techniques for 431	Aedes malikuli, in Taiwan 2031
in Citellus citellus nests, in	Cnephia maculata, in USSR 1059	A. trivittatus, in Manitoba 622
Czechoslovakia 362	Cnephia mutata, Mermithidae in, specificity	Anopheles arabiensis, in Nigeria 767
seasonal abundance of 362	of 643	A. gambiae, in Nigeria 767
Citellophilus tesquorum	Cnetha (see Simulium)	Culicidae, in USSR 1038
control of, insecticides for 2868	Cnetha angustitarse (see Simulium	medically-important arthropods,
in USSR 2868	angustitarse)	bibliography 2517
on Rodentia, in Caucasus 2868	Cnetha latipes (see Simulium latipes)	Coelomomyces ciferrii, taxonomy of 2660
Citellus citellus	Cnetha pathrushevae (see Simulium	Coelomomyces dodgei
Ixodes laguri in nests of, development of	pathrushevae)	hybridisation of C. punctatus and 394
239	Cnidaria 3148	in, Acanthocyclops vernalis, production of
		611
Siphonaptera in nests of, in	Cnidosporidia 642, 1038, 1045, 1055, 2097,	
Czechoslovakia 362	2517, 2839, 3136	Coelomomyces dubitskii, sporangia in 2031
Citral (see 2,6-Octadienal, 3,7-dimethyl-)	Amblyospora bracteata 144, 1059, 1268	Coelomomyces iliensis, in, Culex pipiens,
Citric acid (see 1,2,3-Propanetricarboxylic	A. minuta 1025	development of infection with 1065
acid, 2-hydroxy-)	A. opacita 402, 1025	Coelomomyces indicus
Citronellal (see 6-Octenal, 3,7-dimethyl-)	A. polykarya 2077	in
Citrus paradisi (see Grapefruit)	Burenella dimorpha 3388	Anopheles arabiensis, in Nigeria 767
ciureai, Hybomitra	Diffingeria spinosa 1890	A. gambiae, in Nigeria 767
Cladocera, Bacillus thuringiensis in, not	D. turgenica 1890	Coelomomyces lativittatus 394
pathogenic 3296	Microsporidium chironomi 3342	Coelomomyces macleayae
Cladotanytarsus lewisi		in
	M. goeldichironomi 3342	
allergens of 2192	Nosema 1020	Aedes alcasidi, in Taiwan 2031
in Sudan 1596, 2192	N. algerae 112, 747, 1539, 2633, 3259	A. japonicus, in Taiwan 2031
on man, hypersensitivity to, diagnosis of	Parathelohania 1197	Tripteroides bambusa, in Taiwan 2031
1596	P. legeri 1025	Coelomomyces milkoi
clastrieri, Culicoides	P. obesa 1025	in
Clausilia, Dicrocoelium dendriticum in, in	Pleistophora debaisieuxi 144, 1059, 1268	Tabanidae, development of infection
Yugoslavia 688	P. multispora 144, 1268	with 1065
claustrei, Lutzomyia	P. simulii 1059, 1268	Tabanus autumnalis, in Uzbekistan
claviger, Anopheles	Stempellia 1020	445
		Coelomomyces omorii
claviprocera, Genoneopsylla	S. captshagaica 1025	
Clays, insecticides in, persistence of 2039	Thelohania fibrata 144, 1059, 1268	in, Culex vishnui, in Taiwan 2031
clethrionomydis, Laelaps	T. solenopsae 1627	sporangia in 2031
Clethrionomys	T. varians 1059, 1268	Coelomomyces opifexi
ectoparasites of, in Scandinavia 2338	Toxoglugea 609	in
Hepatozoon erhardovae in, in German	T. variabilis 2653	Aedes australis, mode of entry of 107
Federal Republic 2331	Vavraia culicis 2891	Tigriopus spp., mode of entry of 107
Peromyscopsylla silvatica on, in Siberia	coarctata, Acanthocera	Coelomomyces ponticulus
1052	Coastal resorts, mosquito control in 1712	sp. nov., description of 588
		in, Aedes flavopictus, in Japan 588
Clethrionomys gapperi, Ixodes muris on, in	Coccidae, chromosomes in 1995	
Canada 720	Coccidia	Coelomomyces psorophorae, host specificity
Clethrionomys glareolus	book 2259	in 1237
Anoplura on, in USSR 2571	in 2126	Coelomomyces punctatus, hybridisation of
arthropod parasites of, in USSR 1046	insects 3136	C. dodgei and 394
Ctenophthalmus uncinatus on, in USSR	pig, in German Federal Republic 1959	Coelomomyces quadrangulatus, in,
1042	Coccoidea, mounting media for 1149	Uranotaenia spp., in Taiwan 2031

1547.

Conferences (1978) contd. Coelomomyces stegomyiae Colombia contd. Entomological Society of Canada 2000 Anopheles contd. Aedes albopictus, in Taiwan 2031 A. triannulatus in 3227 International Congress of Genetics A. flavopictus, in Japan 588 Boophilus microplus in, on cattle 700, 1579 Armigeres subalbatus, in Taiwan 2218 Italian Society of Parasitology 763 Topomyia yanbarensis, in Taiwan cattle in, tick control on 236 National Congress of Entomology, Mexico 2031 Culex adamesi in 584 Culicoides spp. in 2141 on man 2156 Tripteroides bambusa, in Taiwan 2031 National Congress of the Italian Society Coelomomyces stegomyiae chapmani, var. nov., description of 2031 of Parasitology 8 Practical tissue culture applications 1467 Scandinavian Congress of Allergology Psychodidae in 2661 Coelomycidium, in, Simuliidae, in Guatemala 144 Simulium spp. in, on man 2156 S. argentiscutum in 2399 280 Coelomycidium simulii, in, Simulium ornatum, localisation of 1065 S. exiguum in, on man Serology in insect predator-prey studies S. metallicum in, on man 638 S. muiscorum in 432 1481 Society for Industrial Microbiology 1572
Temporal and spatial changes in the
Canadian insect fauna 2000
WHO Working Group on receptivity to
malaria and other parasitic diseases Coendalges panamensis gen. et sp. nov., description of 732 in Panama 732 on Coendou rothschildi, in Panama 732 coloradensis, Tarsopsylla octodecimdentata Colorado Colorado tick fever in 3405, 3406 Culicoides spp. in 2384 C. variipennis in 1575, 2388 Dermacentor andersoni in, viruses in Coendalginae, taxonomy of, new subfamily in Lobalgidae 732 in Lobalgidae 732

Coendou rothschildi, Coendalges panamensis
on, in Panama 732

Coffea arabica (see Coffee) World Ceratopogonidae Group 127 Conferences (1979) 1403, 3406 Geomydoecus spp. in, on Thomomys Advances in insect taxonomy in India and the Orient 14, 705 American Chemical Society 1534, 2260 Coffea canephora (see Coffee) Coffea canephora (see Coffee)
Coffee (Coffea spp.)
Coffee plantations, Simulium horacioi in, in
Guatemala 1582
cognata, Zygoribatula
cognatus, Stivalius
colabaensis, Phlebotomus mosquito control in 3204 Pests and Diseases 755
British Pest Control Conference 1138
Congress on the control of insects in the tropical environment 1689 Oeciacus vicarius in on man 44 viruses in 1749, 2219
Uranotaenia sapphirina in 1820 Colorado tick fever Entomological Society of America 2834 Entomological Society of America, East Branch 543 ecology of 3405 Colchicine in Lucilia sericata, inhibiting sugar receptors 461 sterilant for, Chrysomya megacephala 885, 3365 virus ecosystem of 1403 Entomological Society of Korea 1726 Dermacentor andersoni, in Colorado Epidemiology of African trypanosomiasis 1403, 3406 1859 Coleoptera Expert Consultation on Research on Trypanosomiases 1887 FAO Expert Consultation on Bacillus thuringiensis in, not pathogenic Eutamias minimus, in Colorado 3296 1403 blood-feeding in, evolution of 1170 Culicinomyces clavosporus in, not pathogenic 1829 small mammals, in Colorado 3406 Spermophilus lateralis, in Colorado 1403 Environmental Criteria for Registration of Pesticides 2786 FAO Panel of Experts on Pesticide Residues in Food 529 helminths in, in Uzbekistan 316 in Agelaius phoeniceus nests, in Manitoba tick transmission of 3137 Columba livia (see Pigeon) columbae, Columbicola columbiae, Psorophora FAO Panel of Experts on pesticide in birds' nests, in UK 776 residues in food and the environment Columbicola columbae, perioesophageal nephrocytes in 2852 in cattle dung 3128 Insect neurobiology and pesticide action (Neurotox 79) 329
International Meeting of the Controlled Release Society 2829
International Symposium on Chironomidae 196 in Morocco 3386 successions of 490 Columbiformes, Goniodidae on 1495 Columbinae, Physconelloides spp. on 2566 in cattle-dung fertilizer, in Irish Republic comma, Stenolophus 324 Commonwealth Agricultural Bureaux, 50 years of 752 in dung, traps for 3380 in fresh water, effects of pyrethroids on communis, Aedes comodoliacis, Haematopota 2157 International Symposium on Infectious Diseases of Livestock 2652 in ponds, effects of insect growth in ponds, effects of insect growth regulators on 3024 in poultry dung, in North Carolina in poultry housing, in England 1717 in rice-fields, in California 2093 on man, hypersensitivity to 319 overwintering of, in birds' nests 2005 physicia mites on transfor 3380 Comperia merceti Isotope and radiation research on animal biology of 555 diseases and their vectors 1082 Italian Society for the Study of Animal Behaviour 821 distribution of 555 hosts of 555 in Argentina 555 in USA 1737 National Congress of Entomology, Mexico 1457 parasitising, Supella longipalpa, and biological control using, in California 1737 National symposium on the sheep blowfly and flystrike in sheep, Australia 161 Pesticide analytical methodology 2260 Recent advances in the chemistry of the pyrethroids 1433 phoretic mites on, traps for 3380 preyed on by fish 1543 rearing of, techniques for 1737 Complement, in man, not affected by scabies Gambusia affinis, in California 2093 pyrethroids in, toxicity of 78, 876 taxonomy of 1719 coleoptratorum, Parasitus Scientific Conference of the African Complement fixation tests, for identifying Glossina blood-meals 3322 Association of Insect Scientists Seminar on Trypanosomiasis 148 Swiss Society of Microbiology 113 Colinus virginianus, arthropod parasites of, in USA 2001 concanensis, Ornithodoros Symposium on Human Babesiosis 3396 Symposium on microbial agents for the control of insect pests 1534 Utah Mosquito Abatement Association Colitis, in man, role of mites in 980 Conchapelopia melanops habitats of 679 in Poland 679 Collagenase in Hypoderma lineatum in Poland 679
Stylocystis praecox in, in Poland 679
concinna, Haemaphysalis
Conferences (1974), International Congress
of Acarology 920
Conferences (1976), BIOTROP symposium
on ectoparasite biology 2800
Conferences (1977) characterisation of 877 3201 Collembola in cattle-dung fertilizer, in Irish Republic Wellcome Haemotropic Diseases Symposium 935 in ponds, effects of insect growth regulators on 3024 WHO Expert Committee on Vector Biology and Control 781 WHO Expert Group on Pesticide
Residues 529, 3128
Workshop in Neurotransmitter and
Hormone Receptors in Insects 1998
Zimbabwe Veterinary Association 2224 overwintering of, in birds' nests 2005 Conferences (1977) collocaliae, Ornithodoros collusor, Hippelates (see Liohippelates International Conference on Fleas 2305 International Scientific Council for Trypanosomiasis Research and Control 1297 collusor)
collusor, Liohippelates (Hippelates)
Colocasia, Aedes spp. in axils of, in Uganda Latinamerican Congress of Zoology WHO Expert Committee on Vector Conferences (1980) Annual ICN-UCLA Symposia, Molecular and Cellular Biology 1837 California Mosquito and Vector Control Association 2079, 2385, 2411, 2495 1116 Biology and Control 526 Conferences (1978) Colocasia esculenta, Aedes simpsoni in axils of, in Nigeria 591 Colombia All-Union Conference of Parasitocoenologists 1018 International Congress of Entomology Aedes aegypti in 116 Anocentor nitens in, on cattle Consultation on the Programme for the 530 Anopheles mattogrossensis in 3227

A. nuneztovari in 2068

A. oswaldoi in 3227 Control of African Animal Trypanosomiasis 1886 International Symposium on Crop Protection 1733

Entomological Society of America 1481

Kansas Entomological Society 1179

Subject Miden		701
Conferences (1980) contd.	cooki, Chaoborus	Corrodopsylla birulai contd.
Laveran Symposium on the biology,	Copepoda, Bacillus thuringiensis in, not	on small mammals contd.
epidemiology and immunology of	pathogenic 3296	
		in USSR 2871
malaria 3193	Copernicia, Rhodnius prolixus in, in	corrugatus, Enderleinellus
Mammalian safety of microbial control	Venezuela 37	Corticosteroids (see Adrenal cortex
agents for vector control 2799	Copris siangensis	hormones)
Minimising occupational exposure to	sp. nov., description of 2724	Corvidae
pesticides 1684	in India 2724	arthropod parasites of, in Kirghizia 1033
National Congress of Parasitology, India		
	in cattle dung, in Arunachal Pradesh	bacteria in, in Kirghizia 1033
2837	2724	Corvus brachyrhynchos, Chandlerella
Ohio Academy of Science 1150	Coproica acutangula (see Leptocera	chitwoodae in, Ceratopogonid
Swiss Society of Microbiology 1565	acutangula)	transmission of 2651
Symposium on yellow fever 2348	Coproica ferruginata (see Leptocera	Corynebacterium pyogenes
Workshop on insect pest management	ferruginata)	in
with microbial agents: recent	Coproica lugubris (see Leptocera lugubris)	cattle, in Netherlands 890
achievements, deficiencies and	Coproica vagans (see Leptocera vagans)	
innovations 3118	Coptopsylla, in Rhombomys opimus	Hydrotaea irritans, transmission of
confervicolus, Anisogammarus	burrows, distribution pattern of 1518	890
confiformis, Hybomitra nitidifrons	Coptopsylla bairamaliensis	Cosarcoptes scanloni
conformis, Xenopsylla	in USSR 571	descriptions of 3421
confusum, Tribolium	on Rhombomys opimus, assessing	in USA 3421
congener, Ctenophthalmus	infestations of 571	on Macaca arctoides, in New York State
		3421
congeneroides, Ctenophthalmus	Coptopsylla olgae	on man, in New York State 3421
Congo	in USSR 571	
Glossina spp. in 1310	on Rhombomys opimus, assessing	Costa Rica
G. palpalis in, on man 2994	infestations of 571	Anastrepha spp. in, on man 1344
malaria in 3195	Coquillettidia	bancroftian filariasis in 2138
Sergentomyia hamoni in 136	control of 3265	Boophilus spp. in, on cattle 3393
sleeping sickness in 1310	in France 3265	Culex quinquefasciatus in 2138
Congo virus	Coquillettidia perturbans	Simuliidae in 141
in	biology of 2045	Simulium metallicum in, natural enemies
Hyalomma marginatum, replication of	feeding behaviour in 2614	of 2154
2216	in Canada 1809, 2045, 2060, 2614, 2881	S. panamense in, natural enemies of
Ornithodoros lahorensis, in Iran 1637,	in USA 1528	2154
2211	oviposition in 2614	costalimai, Triatoma
taxonomy of 1950	seasonal abundance of 2060, 2614	costatum, Eusimulium (see Simulium
tick transmission of 3137	western equine encephalitis, virus in, in	costatum)
vectors of 1826, 1945	Manitoba 1809	costatum, Simulium (Eusimulium)
Conifer plantations, Glossina pallidipes in,	Coquillettidia richiardii	costipennis, Brachinus
in Kenya 3321	biology of 1031	Cottage cheese, diet component for,
Conilurus penicillatus, Laclaps parameces	control of 2954	Cochliomyia hominivorax 1918
on, in Western Australia 1653	biological 3298	Cotton (Gossypium spp.)
conjecta, Hydrachna	in France 2954	Cotton fields
Conjunctivitis, in man, caused by	in USSR 1031, 3191, 3263	Phlebotomus papatasi in, in Turkmenia
Sarcophaga carnaria 769	larval diet of 3263	2145
Connecticut	ovarioles in, autolysis of 3191	Sergentomyia dentata in, in Turkmenia
Aedes cantator in, natural enemies of	Coral cays, Culicidae in, in Queensland	2145
2893	106	coturnicola, Rivoltasia
Cheyletiella spp. in, on man 1965	corbicula, Ameroseius	Coturnix coturnix (see Quail)
Dermacentor variabilis in 248	cordiger, Tabanus	Cough
Ixodes dammini in 248	Cordulia, preying on, Culicidae 1038	in pig, caused by Vespula 914
I. dentatus in, viruses in 1408	Cordylobia anthropophaga	in Zalophus californianus, caused by
Ixodidae in	biology of 2417	Orthohalarachne diminuata 1423
on domestic animals 1398	control of, removal for 1375, 2417	Coumaphos (O-(3-chloro-4-methyl-2-oxo-2H-
on man 1398	in Ghana 1375	1-benzopyran-7-yl) O,O-diethyl
Orius insidiosus in, on Peromyscus 2025	in Saudi Arabia 2537	phosphorothioate)
Psorophora ferox in 1208	in Zaïre 2417	against
Tabanidae in 1921	on man 2453	Amblyomma spp. 703
on cattle 2443	furunculosis caused by 2417	Cochliomyia hominivorax 1362
Tabanus nigrovittatus in, natural enemies	in Ghana 1375	Linognathus spp., on sheep 503
of 1603		
Connecticut virus	in Saudi Arabia 2537 Cordyluridae, in Azerbaijan 899	Musca domestica 1893
		Psoroptes ovis, on sheep 503
in guines nig entitledies to 1409	Coregoni, Bosmina	Rhipicephalus sanguineus, on dog 965
guinea-pig, antibodies to 1408	Corethrella brakeleyi, traps for 447	Sarcoptes scabiei, on pig 1959
Ixodes dentatus, in Connecticut 1408	Corethrella buettikeri	resistance to, in
mouse, pathogenicity of 1408	sp. nov., description of 2531	Boophilus microplus, in South Africa
Sylvilagus floridanus, antibodies to	in Saudi Arabia 2531	939
1408	Corethrella wirthi, traps for 447	Musca domestica, role of cuticular wax
Connochaetes taurinus	coriaceus, Ornithodoros	in 198
arthropod parasites of, in South Africa	Corixidae	with trichlorphon, against, Haematopinus
1888	fenethacarb in, toxicity of 1530	tuberculatus, on Asian buffalo 2250
pest control on 1888	in animal waste lagoons, effects of organic	Coumarin (see 2H-1-Benzopyran-2-one)
Conorhinopsylla, taxonomy of 1750	pollution on 1814	Counterimmunoelectrophoresis (see
Conorhinopsylla stanfordi	in ponds, effects of insect growth	Immunoelectrophoresis)
in USA 1514, 2339	regulators on 3024	coustani, Anopheles
in Glaucomys volans nests, in USA 2339	Cormura brevirostris, Psorergatoides	Cowdria ruminantium
on Glaucomys volans, avoidance of	peropteryx on, in French Guiana 736	control of, immunization for 945
competition by 1514	Corn (U.S. usage) (see Maize)	in
seasonal abundance of 2339	cornicina, Orthellia	Amblyomma hebraeum, in South Africa
Consan, against, Aedes aegypti 2816	cornifrons, Scarabaeus (see S. cristatus)	945
consimilis, Ceratophyllus (see Nosopsyllus	corniger, Culex	A. variegatum, transmission of 3060
consimilis)	cornutus, Gallacanthus (Menacanthus)	cattle
consimilis, Nosopsyllus (Ceratophyllus)	cornutus, Menacanthus (see Gallacanthus	in Mauritius 958
Continental drift	cornutus)	in Zimbabwe 937
flea evolution and zoogeography and	coronator, Culex	goat, in Guadeloupe 958
2311	corporis, Pediculus humanus (see P.	sheep, in Réunion 958
louse evolution and zoogeography and	humanus)	Coxiella burneti
2311	Corriparta virus, in, Toxorhynchites	in
convexus, Apallates (Hippelates)	amboinensis, infectivity of 589	Cimex lectularius, transmission of 803
convexus, Hippelates (see Apallates	Corrodopsylla birulai	Dermacentor marginatus, in Kirgizia
convexus)	in USSR 2871, 3184	1688
cookei, Ixodes	on small mammals	Haemaphysalis sulcata, in Kirgizia
cooki, Aedes	in Siberia 3184	1688
	.11 0100110 0101	1000

Coxiella burneti contd. Crotalus atrox, Porocephalus crotali on, development of 2500 in contd. Hvalomma anatolicum, in Kirgizia Crotamiton (N-ethyl-N-(2-methylphenyl)-2butenamide) 1688 H. marginatum, in Kirgizia 1688 Ixodes ricinus, in Lithuania 3399 against, Dermanyssus americanus, on man 1670 Ixodidae, transmission of 2747 mites, in Czechoslovakia 924 Crotoxyphos (1-phenylethyl (E)-3-[(dimethoxyphosphinyl)oxy]-2-butenoate) Ornithodoros lahorensis, development against Musca autumnalis, on cattle 1915
M. domestica 1893 of 3070 of 3070
Otobius megnini, transmission of 3060
Rhipicephalus spp., in India 2748
R. pumilio, in Kirgizia 1688
R. sanguineus, in Karnataka 2470
R. turanicus, in Kirgizia 1688
Coyote (see Canis latrans) Otodectes spp., on fur bearers 728 O. cynotis, on fox 728 Psoroptes spp., on rabbit Stomoxys nigra, on cattle 203 Crab, Simulium ovazzae on, in Zaïre 2673 with dichlorvos Crabro advena in USA 1923 against Haematobia irritans, on cattle 1915 Musca autumnalis, on cattle 1915 in USA 1923
nesting behaviour in 1923
prey of 1923
crabro, Vespa
cranifer, Blaberus
crassicaudatus, Arrenurus
crassicaudatus, Chironomus Crow, Japanese encephalitis, virus in, in India 573 Crozetia, maxillary sensilla in 3309 crucians, Anopheles Crustacea crassinervis, Procladius Bacillus thuringiensis in not pathogenic 3296 pathogenicity of 2086 crassipalpis, Parasarcophaga (see Sarcophaga crassipalpis) in fresh water, effects of pyrethroids on crassipalpis, Sarcophaga (Parasarcophaga) crassipes, Lepiselaga 2157 Crassipes, Lepischaga
Crataerina hirundinis
in USSR 1021
on birds, in USSR 1021
Crataerina pallida
in UK 2696
in dwellings, in Scotland 2696 in rice-fields, in California 2093 preyed on by, Gambusia affinis, in California 2093 Trichinella spiralis in, transmission of 746 vision in, book 2004 Cratynius yunnanus cruzii, Anopheles crybda, Culex sp. nov., description of 3180 in China 3180 Cryptochironomus, in California 2118 on Hylomys suillus, in Yunnan 3180 Cryptonyssus, on bat, in Moldavia 1077 Cryptoses, on sloth, in Americas 1632 crawfordi, Anopheles Creeks, Diptera in, effects of discharge patterns on 2118 β -Cryptoxanthin (see β , β -Caroten-3-ol, (3R)-) crenobium, Eusimulium (see Simulium crenobium) csikii, Haematopota Ctenocephalides canis crenobium, Simulium (Eusimulium) Creolin, with HCH 3349 antennae in, sensilla on 1517 in India 2343, 2470 crepuscularis, Culicoides in Nigeria 47 in Tanzania 2030 in UK 2872 in USA 2302 Cresol (see Phenol, methyl-) criceti, Demodex Cricetulus, Amphipsylla qinghaiensis on, in China 567 Leptomonas ctenocephali in attachment of 2866 Cricetulus migratorius, Amphipsylla qinghaiensis on, in China 567 Cricetus auratus (see Hamster, golden) Cricetus cricetus, Ricinus spp. on, in Hungary 2012 attachment of cysts of 2873 on Didelphis virginiana, in Oregon 2302 on dog, in England 2872 on goat, effects on blood of 47 on rodents, in Tanzania 2030 Cricotopus control of, traps for 2413 on sheep, effects on blood of 47 in California 670 Rickettsia conori in, in Karnataka 2343 in flood-control systems, in California Ctenocephalides felis control of, insecticides for 2028, 2325 2413 Cricotopus bicinctus control of, insecticides for 3346 in USA 3346 development in effects of humidity on 3187 effects of temperature on 3187 Hymenolepis diminuta in, infectivity of in flood-control channels, in California 3346 366 in Jordan 36 in UK 1139 Cricotopus sylvestris 365 control of growth regulators for 56 in USA 2028, 2302 insecticides for 3346 on cat hypersensitivity to 363 in Jordan 365 on *Didelphis virginiana*, in Oregon 2302 in USA 3346 in USSR 56 in flood-control channels, in California 3346 on dog, hypersensitivity to 363
Rickettsia prowazekii in, not transmitted in rice-fields, in Caucasus 56 Crimean hemorrhagic fever virus (see Congo 3066 Ctenocephalides felis felis biology of 820 control of 820 virus) cristatus, Scarabaeus Crivellia (see Przhevalskiana) Crocidura, Schoutedenichia frici on, in in UK 2872 on cat, in England 2872 on dog, in England 2872 Africa 1660 Crocidura leucodon Peromyscopsylla bidentata on, in Hungary 2027 on man, in central Europe 820 Ctenocephalides felis orientis (see C. Polyplax reclinata on, in Poland 557 Crocidura occidentalis, Microtrombicula orientis)
Ctenocephalides orientis kikuyuensis on, in Africa 1660 chromosomes in 2581 Crocidura russula on man 2837 Ctenodactylidae, Caenopsylla spp. on, in northern Africa 2335 Hystrichopsylla talpae on, in Morocco 3183

Ctenopharyngodon idella, aquatic weed

control using 2345

West Nile virus in, in Spain 2233 crotali, Porocephalus

Ctenophthalmus agyrtes Hepatozoon erhardovae in, development of 2331 hosts of, adaptations to 1042 in Czechoslovakia in Hungary 2334 in USSR 1042, 1046, 1049 in Citellus citellus nests, in Czechoslovakia 362 seasonal abundance of 362 Ctenophthalmus aprojectus sp. nov., description of 568 in China 568 on small mammals, in Yunnan 568 Ctenophthalmus assimilis Hepatozoon erhardovae in, development of 2331 in Czechoslovakia 362 in Hungary 2334 in Poland 323 in USSR 1049 in Citellus citellus nests, in Czechoslovakia 362 on Clethrionomys glareolus, in USSR on Mustela, in Poland 323 on rodents, removal by host of seasonal abundance of 362 2342 Ctenophthalmus bisoctodentatus in USSR 1049 on Clethrionomys glareolus, in USSR 1049 Ctenophthalmus calceatus in Tanzania 2030 on rodents, in Tanzania 2030 Ctenophthalmus congener secundus in USSR 1060 on Mus musculus, in Crimea 1060 Ctenophthalmus congeneroides in USSR 3389 on Rodentia, in Maritime Territory 3389

Ctenophthalmus orientalis
in Czechoslovakia 362 in Citellus citellus nests, in Czechoslovakia 362 seasonal abundance of 362 Ctenophthalmus pseudagyrtes pseudagyrtes in USA 2304 on Rattus norvegicus, in Wisconsin 2304 Ctenophthalmus secundus (see C. congener secundus) Ctenophthalmus teres control of, insecticides for 2868 development in effects of humidity on 1519 effects of temperature on 1519 in USSR 2868 on Rodentia, in Caucasus 2868 Ctenophthalmus uncinatus hosts of, adaptations to 1042 in USSR 1042, 1046, 1049 on rodents, removal by host of 2342 Ctenophyllus, distribution of 2335 Ctenophyllus armatus in USSR 3184 on small mammals, in Siberia 3184 Cuba Centruroides spp. in 3432 Culicidae in 849 Culicidae in 849 on man 1764 mosquito-borne diseases in 849 Scheloribates spp. in, cestodes in 738 Scorpiones in 745 Scorpiones in Cubanochirus descriptions of 1952 on Solenodon paradoxus, in Dominican Republic 1952 Cubanochirus elongatus descriptions of 1952 on Capromys melanurus on Capromys prehensilis Cubanochirus maximus descriptions of 1952 on Solenodon cubanus 1952 cubanus, Capromylichus cubitalis, Culicoides (see C. kibunensis) Cuclotogaster occidentalis in Nigeria 2013, 2569 on fowl, in Nigeria on guineafowl, in Nigeria arboviruses in, transmission of 1826

Culex contd.	Culay declarator contd	Cular nadrai contd
	Culex declarator contd.	Culex pedroi contd.
Bacillus sphaericus in, in Pondicherry	Saint Louis encephalitis, virus in, in Brazil	taxonomy of, characters distinguishing
2622	2898	adamesi and 584
control of	Culex epanastasis	Culex peus
biological 1537, 2346		
	descriptions of 583	control of, biological 2084
genetic 3140	taxonomy of	in USA 2081, 2083
insecticides for 2057, 2792	characters distinguishing C. adamesi	Culex pipiens
electrophoresis for studying 70	and 584	Bacillus sphaericus in, pathogenicity of
Flanders virus in, in Indiana 2900	Culex crybda distinct from 583	1216
fungi in, in USSR 1019	Culex erythrothorax	breeding places of 603
in Angola 2638	biology of 3241	chlorpyrifos resistance in 3266
in Azerbaijan 852	in USA 3241	in Italy 772
in Canada 1533		chymotrypsin inhibitor in 2075
	Culex fatigans (see C. quinquefasciatus)	
in Canary Islands 2071	Culex fuscocephalus, in China 2349	Coelomomyces iliensis in, development
in China 2053	Culex gelidus, in Bangladesh 1562	infection with 1065
in Cuba 849		control of 2954, 3265
in Finland 2957	Culex johni	biological 1249, 1711, 1728, 1797,
in Hokkaido 603	sp. nov., description of 579	
	in Venezuela 579	2086, 3297, 3298
in Karnataka 2470	in streams, in Venezuela 579	growth regulators for 1710, 1754,
in Nigeria 602		1988, 3436
in Quebec 2881	Culex jubifer, taxonomy of, characters	insecticides for 761, 772, 1822, 2040
in Soviet Maritime Territory 3264	distinguishing C. simulator and 109	2886, 2920
	Culex machadoi	
in Spain 2941		Culicinomyces spp. in, pathogenicity of
in USSR 1548	descriptions of 2049	1729
in tree holes, in Kenya 2876	in Brazil 2049	cytoplasmic polyhedrosis virus in, in
in water containers, in Nigeria 2895	Culex mammilifer, in China 2053	Ûkraine 1025
in woodland, vertical distribution of	Culex martinii	Dirofilaria immitis in, development of
1212	in USSR 77	378
Japanese encephalitis, virus in, in China	siphon index of, variation with latitude of	enzymes in 369, 774, 1227, 1571, 2075
1827	77	2105, 2940
larvae of, distinguishing instars of 2611	Culex modestus	fecundity in, effects of artificial selection
on man, no antibodies to 562	in USSR 2594	on 1211
on rabbit, antibodies to 562	phenology of 2594	feeding behaviour in, role of JH in 177
parasitised by, water mites, in Quebec	Culex molestus	Flanders virus in, in New York State
2354	autogeny in 1240	3246
research on, in UK 840	chikungunya virus in, replication of 85	flight activity in, fatty-acid requirements
	control of	for 3214
Saint Louis encephalitis, virus in, in Brazil		
2898	biological 1228	in Canada 1243, 2060, 2064, 2881
seasonal abundance of 2957	detergents for 75	in Egypt 2135, 3293
taxonomy of 2903	growth regulators for 1011	in France 2886, 2954, 3199, 3265, 329
tracheoles in 2835	insecticides for 75, 401, 828	in Italy 772, 2128
Culex adamesi	dinoseb in, toxicity of 3289	in Japan 603
sp. nov., description of 584	egg-hatch in, effects of temperature on	in South Africa 84
biology of 584	2050	in South Korea 2122
in Brazil 584	fungi in, in Ukraine 1757	in USA 1789, 1790, 1791, 2040, 2043,
in Colombia 584	in Azores 1240	2074, 2083, 2914, 3212, 3246
in Ecuador 584	in Japan 2050	in USSR 1024, 1025, 1079, 2346, 2594
in French Guiana 584	in Madeira 1240	3263
in Panama 584	in Romania 75	in catch basins, in Indiana 1791
Culex annulirostris	in USSR 1757	in drains, in France 3297
development in, effects of temperature on	in basements, in Romania 75	in ponds, effects of aquatic plants on
2632	mating flight in 822	1243
Eperythrozoon ovis in, transmission of	oviposition attractants for 1759	in tyres, in Hokkaido 603
2129	oviposition in, effects of temperature on	insect growth regulators in, effects of
in Australia 1214, 1772	2050	1754
in Fiji 412	Romanomermis culicivorax in,	insecticide resistance in
seasonal abundance of 1214	development of 2934	detecting of 2105
surveillance for 1772	stenogamy in 1240	in Utah 3212
Culex annulus (see C. vishnui)	Culex nigripalpus	larval diet of 3263
Culex apicalis, in USA 2083	control of	monitoring of 2064
	growth regulators for 371	1.1
Culex australicus	growth regulators for 3/1	nutrition of 3214
in Australia 1214	monolayers for 373	on birds, in South Africa 84
seasonal abundance of 1214	in Jamaica 845	on man
Culex bihaicolus	in USA 371, 373, 837, 2609	in South Africa 84
in Venezuela 1222, 2362	in sewage systems, in Florida 373	in Ukraine 1024
in Heliconia aurea bracts, in Venezuela	ovarian development in 2609	overwintering in 2914
1222	ovaries in, proteins in 91	oviposition deterrents for, plant extracts
in Heliconia aurea floral bracts, in	Plasmodium hermani in, in Florida 837	2618
Venezuela 2362	Saint Louis encephalitis, virus in, in	oviposition in, effects of temperature on
Culex bitaeniorhynchus	Jamaica 845	2619
biology of 3275	Culex ocossa	pathogens of, predators of 3244
in China 2349	enzymes in 2923	phenology of 2594
in India 573, 3275	in Panama 2923	population dynamics of 2593
in Indonesia 1777	on man, in Panama 2923	predators of, effects of aquatic plants on
in Philippines 3221	taxonomy of, characters distinguishing C.	1243
Japanese encephalitis, virus in, in	panocossa and 2923	preyed on by, Gambusia spp. 2346
Philippines 3221	Culex opisthopus, taxonomy of, synonym of	Rift Valley fever
on fowl, in India 573	C. taeniopus 583	virus in
Culex corniger	Culex orientalis	in Egypt 2135
in Venezuela 2643	breeding places of 603, 3271	transmission of 2135
in cemetery vases, in Venezuela 2643	control of, biological 1728	Romanomermis culicivorax in 2089
Culex coronator	in Japan 603, 3271	effects of 1229
in Brazil 2898	in rice-fields, in Hokkaido 603, 3271	effects on hemolymph proteins of 12
Saint Louis encephalitis, virus in, in Brazil	Culex panocossa	infectivity of, effects of culture age on
2898	enzymes in 2923	2932
Culex crybda	in Panama 2923	Saint Louis encephalitis
descriptions of 583	on man, in Panama 2923	virus in
taxonomy of	taxonomy of, characters distinguishing C.	not transmitted transovarially 178
characters distinguishing C. adamesi	ocossa and 2923	transmission of, strain differences in
and 584	Culex pedroi	396
distinct from C. epanastasis 583	sp. nov., description of 583	seasonal abundance of 2060, 2122
Culex declarator	distribution of 583	siphonal index in, effects of artificial
in Brazil 2898	in Panama 583	selection on 1211

Culex pipiens contd.	Culex quinquefasciatus contd.	Culex quinquefasciatus contd.
temephos resistance in, in Italy 772	control of contd.	permethrin resistance in
traps for 2064	insecticides for contd.	and cross-resistance 2353
Trichomycetes in, in Nebraska 2043	rotation of 2110	penetration rate not involved in 392
		population density of, estimating of 21
Wuchereria bancrofti in, in Egypt 3293	monolayers for 373	
group of	mucilaginous seeds for 2601	preyed on by
anautogenous races of, wing characters	sanitation for 412	Gambusia affinis 3213
for identifying 2607	traps for 2928	Macropodus cupanus 2351
autogenous races of, wing characters for	cytoplasmic incompatibility in 2048	Poecilia reticulata 3213
identifying 2607	DDT resistance in, in Pondicherry 2640	Rift Valley fever, virus in, transmission
breeding places of 832		2139
	dieldrin resistance in, in Pondicherry	
chromosomes in 2646	2640	Romanomermis nielseni in, development
control of 2370	dyes in, light-dependent toxicity of 2367	of 1817
in urban areas 832	eclosion in, rhythm of 1600	rose eye mutant of 595
enzymes in 2035	egg-hatch in, effects of temperature on	Saint Louis encephalitis
genitalia in 111	2050	virus in
in Egypt 2646		not transmitted transovarially 178-
in France 832	enzymes in 1221, 2104, 2352, 2366,	
in Japan 111	2625, 2877, 3281	transmission of, strain differences in
in Tennessee 2074, 2944	esterase in, genetics of 3281	396
in Thailand 2945	fecundity in, effects of physiological age	seasonal abundance of 2383
insecticide resistance in 825, 2366	on 606	sex ratio in 606
	feeding behaviour in 2383	sexual dimorphism in, in larvae 1806
sanitation and 2370	role of JH in 1770	solar eclipse not affecting 3223
taxonomy of 2944		
western equine encephalitis, virus in, in	flight activity in 67	sterilisation of, chemosterilants for 100
California 2081	rhythm of 406, 858	strains of 1206
Culex pipiens autogenicus (see C. molestus)	genitalia in 111	temephos resistance in
Culex pipiens fatigans (see C.	habitats of 1796	genetics of 2104
quinquefasciatus)	in Brazil 2383, 2655, 2656, 2657, 3224	in Uttar Pradesh 608
Culex pipiens molestus (see C. molestus)	in China 2349	mechanisms of 2104
Culex pipiens pallens	in Costa Rica 2138	thiotepa in, duration of sterilisation by
control of, insecticides for 1437, 1441,	in Fiji 412	100
2604, 2796	in India 102, 606, 608, 2599, 2600, 2623,	thyroxine in, effects on development of
furocoumarins in, effects of 317	2640, 2888, 3223	3256
genitalia in 111	in Japan 111, 2050	traps for 97
hosts of 2907, 2908	in Kenya 97	Vavraia culicis in, infectivity of 2891
in Japan 111, 2907, 2908	in Nigeria 602	Wuchereria bancrofti in
in Thailand 2945	in Papua New Guinea 833	in Andhra Pradesh 2599
on birds, in Honshu 2907, 2908	in Seychelles 1825	in Bihar 2888
on cat, in Honshu 2908	in South Africa 84	infectivity of 1205
on cattle, in Honshu 2908	in Sri Lanka 1206	strain differences in 1795
on dog, in Honshu 2908	in Taiwan 2032	pathogenicity of 121
on man, in Honshu 2908	in Tanzania 2048, 2366, 2928	permeability of gut to 120
on mouse, in Honshu 2908	in Thailand 2132, 2945	refractoriness to 2048
	in Tokelau Islands 1833	transmission of 2138
on pig, in Honshu 2908		
on snakes, in Honshu 2908	in Upper Volta 644, 1714	uptake from man of 2589
ovarian development in, induction of 407	in USA 373, 374, 1814, 2074, 2113,	Culex restuans
trichlorphon resistance in, and cross-	2913, 2914, 2916, 3241	control of, insecticides for 1822
resistance 2604	in USA (Hawaii) 1796	in Canada 2060, 2064
Culex pipiens pipiens	in Venezuela 2643	in USA 2043, 2901, 3211
Ascocystis culicis in, in Ukraine 2590	in animal waste lagoons, effects of organic	monitoring of 2064
Diffingeria spinosa in, in USSR 1890	pollution on 1814	oviposition in, substrate preferences for
egg-rafts of, assembly of 2953	in cassava fermentation pools, in Nigeria	2901
eggs of, surface properties of 2953	602	Romanomermis nielseni in, development
		of 1817
genitalia in 111	in cemetery vases	
in Japan 111	in California 2916	seasonal abundance of 2060
in USSR 1890, 2590	in Venezuela 2643	traps for 2064
mating flight in 822	in cess pits, in Tanzania 2928	Trichomycetes in, in Nebraska 2043
Metarhizium anisopliae in, pathogenicity	in dwellings, in Brazil 2383	Culex rubinotus, Rift Valley fever, virus in
of 596	in pig waste, in North Carolina 374	infectivity of 2139
Culex pipiens quinquefasciatus (see C.	in pit latrines, in Tanzania 2928	Culex salinarius
quinquefasciatus)	in sewage systems, in Florida 373	fecundity in, relation of physiological ag
Culex pseudovishnui	in storm drains, in California 2113	and 1232
in India 573	insecticide resistance in 2381	host-seeking behaviour in 3292
in Japan 1217	breaking down of 2110	in USA 2910, 3211, 3292
on fowl, in India 573	evaluating tests for 2913	in salt marshes, in South Carolina 2910 overwintering in 3292
on man, in Ryukyu Islands 1217	genetics of 1221, 3281	
Culex quinquefasciatus	in Tanzania 2366	seasonal abundance of 3292
allergens of 2132	role of esterases in 2877	Vavraia culicis in, infectivity of 2891
amino acids in, not affected by polluted	Itaqui virus in, infectivity of 1524	Culex scanloni, in China 2053
water 3273	Japanese encephalitis, virus in, in Taiwan	Culex simpsoni, in Seychelles 1825
aminotransferases in, insecticide inhibition	2032	Culex simulator
of 2352	larval development in, head-capsule	descriptions of 109
Apeu virus in, infectivity of 1524	widths during 1806	in Panama 109
Bacillus sphaericus in	malathion in, tolerance of 2913	in Trinidad and Tobago 109
ingestion of, measuring of 2892	malathion resistance in, development of	taxonomy of, characters distinguishing C
pathogenicity of, effects of larval	3269	jubifer and 109
		Culex sitiens
behaviour on 3260	Marituba virus in, infectivity of 1524	
B. thuringiensis in, pathogenicity of, not	marking of, radiophosphorus for 3294	control of, insecticides for 2640
affected by insecticide resistance 2924	mating in 1766	in Australia 106
biology of 398, 3241	mortality in 2383	in China 2349
breeding places of 602, 2600, 2623	Murutucu virus in, infectivity of 1524	in India 2640
chlorpyrifos resistance in, in Tanzania	Nodamura virus in, not pathogenic 1773	in Papua New Guinea 833
2928	on man	in coral cays, in Queensland 106
control of 398	hypersensitivity to 2132	Culex taeniopus
biological 118, 1572, 1812, 1829, 2084,	in Andhra Pradesh 2599	descriptions of 583
2375, 2622, 2641, 2916, 2924, 3136	in Brazil 2383, 2655, 2656, 2657	taxonomy of
genetic 2048	Oriboca virus in, infectivity of 1524	Culex opisthopus as synonym of 583
growth regulators for 374, 2113	overwintering in 2914	C. pedroi misidentified as, in Panama
insecticides for 78, 374, 608, 1561,	oviposition in, effects of temperature on	583
1714, 2056, 2106, 2107, 2111, 2263,	2050	Culex tarsalis
2265, 2353, 2366, 2504, 2506, 2640,	oviposition pheromones in 2381	arboviruses in, in California 2081
2913 3216 3269	ovinosition repellents for 1200	autogeny in 386

Culex tarsalis contd.	Culex tritaeniorhynchus contd.	Culicidae contd.
Bacillus thuringiensis in, pathogenicity of	dieldrin resistance in, in Pondicherry	Bacillus sphaericus in contd.
2501 biology of 3241	2640 Cotch views in in Honohy 2286	pathogenicity of 2350
biology of 3241 California encephalitis, virus in, effects on	Getah virus in, in Honshu 3286 hosts of 2907	B. thuringiensis in, in Romania 1537 biology of 3215, 3284
CO ₂ susceptibility of 615	in Bangladesh 1562	bites by 3215
calorie content of 2091	in China 1827, 2349	blood-feeding in, evolution of 1170
carmine eye mutant of, genetic fitness of	in India 573, 1557, 2640, 3275	blood-feeding of, membranes for 3249
3239	in Japan 99, 1217, 1226, 2907, 3286	cell cultures from, review 1468
control of 3203	in Philippines 83, 3221	chromosomes in 1995
biological 2084, 2087, 2088	in South Korea 2122	polymorphism of 1478
genetic 380	in Taiwan 2032	collecting of 2597
model 2102 habitat modification for 2345	in rice-fields effects of agricultural pesticides on	control of 6, 2120, 3202, 3204, 3215,
insecticides for 78, 1801, 2101, 2111	1226	3284
sterile-insect release for 2101	mortality of 99	biological 1038, 1207, 1522, 1535,
water management for 1801	Japanese encephalitis	1538, 1539, 1543, 1553, 1707, 179 2085, 2086, 2088, 2094, 2381, 261
dispersal of 2119	virus in	2955, 3266, 3272, 3296
enzymes in 122, 2131, 3258	in China 1827	economics of 2095
gonads in, effects of temperature on 1233	in Honshu 3286 in Philippines 83, 3221	genetic, review 3140
in Canada 384, 1809	in Taiwan 2032	growth regulators for 3209
in USA 380, 381, 590, 1790, 1801, 2043,	infectivity of, strain differences in	in rural areas 1712
2080, 2081, 2083, 2084, 2087, 2088,	2951	in tropics 1706
2093, 2101, 2111, 2115, 2119, 2345,	isolating of 2950	in urban areas 832, 1712
3203, 3204, 3212, 3241	transovarial transmission of 847	insecticides for 370, 383, 1012, 1709
in irrigated pastures, in California 2088	maroon eye mutant of 2377	1713, 1802, 1803, 2361, 2508, 253
in irrigation canals, in California 2345 in ponds, plant associations of 384	mating competitiveness in, effects of chromosome aberrations on 1557	2829, 2952, 2955, 3209, 3266 integrated 3203
in rice-fields	on fowl, in India 573	manual 3205
effects of crop rotation on 2115	on man, in Ryukyu Islands 1217	models 574
effects of irrigation water source on	on pig, in Honshu 2907	non-target effects of 1235, 1530, 211
2115	predators of	3296
in California 2093, 3203	effects of agricultural pesticides on	optimal spray droplet sizes for 1982
in salt marshes, in California 2087 insecticide resistance in	1226 in Kyushu 99	water management for 3207, 3208
in California 1801	rearing of, techniques for 3255	Dermatophilus congolensis in, transmission of 777
in Utah 3212	seasonal abundance of 2122	diapause in, review 1191
marking of, fluorescent dusts for 2103	Sindbis virus in, in Taiwan 2032	diseases transmitted by 3284
mating competitiveness in 3239	West Nile virus in	ecology of, in Holarctic region 1219
in genetic control strains 2099	infectivity of	eggs of, adaptive strategies related to
oviposition repellents for 1209	effects of adult age on 3233	1824
preyed on by Gambusia affinis 2092	effects of rearing conditions on 3233 Culex tritaeniorhynchus summorosus (see C.	esterase in, determination of 3281 feeding behaviour in 1028
in California 2093	tritaeniorhynchus)	effects of temperature on 2283
Mesostoma spp., in California 2115	Culex univittatus	Filarioidea in, transmission of 3225
Saint Louis encephalitis	in South Africa 84	fungi in 2837
virus in	on birds, in South Africa 84	in Ukraine 1025
in California 3241	on man, in South Africa 84	helminths in, in Uzbekistan 316
not transmitted transovarially 1784 sterilisation of, γ-irradiation for 2101	Rift Valley fever, virus in, transmission of 2139	host-seeking in, role of carbon dioxide in review 1792
surveillance for 2080	Culex vagans	in Andhra Pradesh 3275
traps for 590	breeding places of 3271	in Angola 2638
Trichomycetes in, in Nebraska 2043	control of, biological 1728	in Argentina 400
Vavraia culicis in, infectivity of 2891	Culicinomyces spp. in, pathogenicity of	in Belorussia 411, 841
western equine encephalitis virus in	1729 in China 2349	in California 2118
in California 3241	in Japan 3271	in Canada, book 1533 in Canary Islands 2071, 2941
in Manitoba 1809	in rice-fields, in Hokkaido 3271	in Colorado 3204
transmission of, barriers to 2626	Culex vishnui	in Cuba 849
Culex territans	biology of 3275	in French Guiana 2358
in Canada 384	Coelomomyces omorii in, in Taiwan	in Indiana 1789, 1790
in China 2053 in USA 1531	2031 in China 2349	in Indonesia 1777 in Kenya 1551
in USSR 77, 1024	in India 2620, 3275, 3276	in Kinmen Islands 2349
in ponds, plant associations of 384	in Indonesia 1777	in Kurile Islands 1760
on amphibians, in Ukraine 1024	in Philippines 83	in Mariana Islands 2117
on reptiles, in Ukraine 1024	in Taiwan 2031, 2032	in Michigan 1807
siphon index of, variation with latitude of	Japanese encephalitis	in Missouri 3211
77 Strelkovimermis neterceni in not infective	virus in in Philippines 83	in Nagaland 2623 in Nearctic region, book 2587
Strelkovimermis peterseni in, not infective 1531	in Taiwan 2032	in New York State 2933
Culex theileri	in West Bengal 2620	in Nigeria 2003
in South Africa 84, 2139	West Nile virus in, in Andhra Pradesh	in Ontario 2060
on birds, in South Africa 84	3276	in Philippines 856
on man, in South Africa 84	Culex whitmorei	in Quebec 672, 3290
on sheep, in South Africa 84 Rift Valley fever, virus in, in South Africa	biology of 3275 control of, insecticides for 2640	in Sakhalin Island 1760 in South Africa 2139
2139	DDT resistance in, in Pondicherry 2640	in South Korea 2122
Culex torrentium, in China 2053	dieldrin resistance in, in Pondicherry	in Spain 2941
Culex tritaeniorhynchus	2640	in Thailand 2805
adults of	in India 2640, 3275, 3276	in Trinidad and Tobago 614
glyceride accumulation in 3257	Japanese encephalitis, virus in, in Andhra Pradesh 3276	in Ukraine 1024, 1079 in Venezuela 2061
weight increases in 3257 biology of 3275	Culicidae 1479	in Victoria 1214
chromosomes in 2377	arboviruses in	in West Virginia 1805
control of	in Brazil 2897	in caribou hoofprints, in Quebec 2063
agricultural pesticides for 1226	in French Guiana 1154	in coral cays, in Queensland 106
biological 1228, 1728	in Manitoba 1809	in dairy-waste lagoons, in California
insecticides for 99, 2640 traps for 99	in New South Wales 2033 in Peru 1828	in Pandanus rabaiensis axils, in Kenya
Culicinomyces spp. in, pathogenicity of	Bacillus sphaericus in	54
1729	in Romania 1537	in pools, productivity of 2958

Culicidae contd.	Culicoides conta.	Culicoldes grisescens, in USSR 204/
insect growth regulators in, determining	on cattle, in Kenya 1551	Culicoides grisescens flavus
susceptibility to 2890	on man, in Colombia 2156	ssp. nov., description of 2648
insecticide bioassay using 1455	preyed on by, Elaphrus cupreus, in France	in USSR 2648
insecticide resistance in 534, 1803	3299	Culicoides grisescens grisescens, in USSR
genetics of 2887	Rift Valley fever, virus in, in Kenya	2648
overcoming of 2887	1551	Culicoides gutsevichi
insecticide susceptibility in, determination	viruses in, transmission of 2832	in USSR 1030
of 2645, 3219, 3220	Culicoides abchazicus	on livestock, in Transbaikalia 1030
irrigation with municipal sewage as	genitalia in 416	on man, in Transbaikalia 1030
		Culicoides haranti
affecting 2368	taxonomy of, characters distinguishing C.	
Mermithidae in 1134	filicinus and 416	in Spain 129
natural enemies of, in USSR 1038	Culicoides austeni, Dipetalonema perstans	in tree holes, in Spain 129
nematodes in 2837	in, transmission of 861	Culicoides helveticus
Nosema spp. in 3136	Culicoides barbosai	in USSR 1030
on cattle	control of, insecticides for 626	seasonal abundance of 1030
effects on productivity of 1521	in Cayman Islands 626	Culicoides hieroglyphicus
		flight activity in 2384
in Alberta 1287	Culicoides biguttatus	
on man	host-seeking in 417	in USA 2384
in Panama 2283	in USA 417	seasonal abundance of 2384
prurigo caused by 1764	on livestock, in New York State 417	Culicoides inornatipennis, Dipetalonema
to - in Table 2000		
on sheep, in Idaho 3282	Culicoides brevitarsis	perstans in, transmission of 861
oviposition in, adaptive strategies related	Akabane virus in, in Queensland 866	Culicoides insinuatus, Mansonella ozzardi
to 1824	in Australia 862, 866, 1253, 2142, 2143,	in, not developing 1580
palpal sensilla in 3309	2659, 3303	Culicoides kibunensis
parasitised by	in Fiji 2659	breeding places of 1574
Arrenurus spp., in West Germany 468	parasitised by	in France 1574
Hydrodromidae, in New York State	Myianoetus dycei	in Yugoslavia 414
3254	in Australia 2659	Culicoides kingi
pathogens of	in Fiji 2659	in Sudan 1841
bibliography 2517	Peaton virus in	Onchocerca gutturosa in, in Sudan 1841
review 1783	in New South Wales 862	Culicoides kirovabadicus, taxonomy of,
		synonym of C. circumscriptus 1251
phagostimulants for 1471	in Queensland 1253	
physiological age of, determining of 2874	seasonal abundance of 2143	Culicoides longipennis, in Yugoslavia 414
physiological aging of, 'gonotrophic aging'	Tibrogargan virus in, in Queensland	Culicoides marginalis
more appropriate term for 2137	3303	descriptions of 863
population dynamics of 2078	Tinaroo virus in, in Queensland 862	in Australia 863
predators of 2359	traps for 2143	Culicoides marksi, Onchocerca spp. in,
preyed on by	Culicoides caprilesi	transmission of 2836
		Culicoides marmoratus
Aphanius dispar 2642	in Colombia 2156	
Chaoborus cooki, in Alberta 2931	Mansonella ozzardi in, in Colombia 2156	in Australia 2143
fish 1543	on man, in Colombia 2156	seasonal abundance of 2143
in New Jersey 3207	Culicoides cataneii, in Yugoslavia 414	traps for 2143
Market Science Service 2000		
Mesostoma spp., in Nigeria 3229	Culicoides circumscriptus	Culicoides melleus, sperm transfer in 2963,
pupal seta 13-CT in 2948	in France 1251	2964
research on, in UK 840, 2616, 2633	in Morocco 1251	Culicoides mississippiensis
sampling of 531, 2875	in Tunisia 1251	control of, insecticides for 1842
size sorting device for 2126	in USSR 1024	in USA 1842
taxonomy of, literature on characters for	in Yugoslavia 414	Culicoides molestus
210	on birds, in Ukraine 1024	control of, insecticides for 3302
temperature sensors in 389	polymorphism in 1251	in Australia 3302
traps for 97, 3234, 3235, 3252, 3283	taxonomy of, Culicoides kirovabadicus as	Culicoides musilator
culicifacies, Anopheles	synonym of 1251	breeding places of 1574
	Culicoides clastrieri	in France 1574
Culicimermis schakhovii		
in, Aedes spp., in Ukraine 1025	breeding places of 1574	in Yugoslavia 414
life history of 1025	in France 1574	Culicoides nivosus
Culicinae	in Yugoslavia 414	in South Africa 84
control of 2525	Culicoides crepuscularis	on birds, in South Africa 84
in Brazil 2072	flight activity in 2384	Culicoides nubeculosus
insecticide resistance in 2286	in Canada 864	bluetongue virus in
on cattle, in Wyoming 2525	in USA 2384	infectivity of 2650
predators of, in Nigeria 1113	in Agelaius phoeniceus nests, in Manitoba	replication of 630
Culicinomyces	864	Eufilaria bartlettae in, development of
in	rearing of, techniques for 628	1573
		_ 1741
Aedes spp., pathogenicity of 1729	seasonal abundance of 2384	E. delicata in, development of 1573
Culex spp., pathogenicity of 1729	Culicoides cubitalis (see C. kibunensis)	in USSR 1024
Culicinomyces clavosporus	Culicoides dendrophilus, in China 2649	mating in 2144
against	Culicoides dobyi	on cattle, in Ukraine 1024
Aedes epactius 1829	in USSR 1030	Onchocerca cervicalis in
Culex quinquefasciatus 1829	seasonal abundance of 1030	infectivity of 2650
CMI description of 62	Culicoides dubius, in China 2649	permitting replication of bluetongue
hosts of 1829	Culicoides dzhafarovi, in Yugoslavia 414	virus 630
temperature requirements of 1829	Culicoides fagineus	O. gutturosa in, transmission of 128
Culicoides	in Spain 129	sex pheromone of, effects of blood-meal
animal diseases transmitted by 779	in tree holes, in Spain 129	on production of 631
	Culicoides fascipennis	sterilisation of, chemosterilants for 3306
antibiotics in, toxicity of 1056		
biology of 130	in Yugoslavia 414	Culicoides obsoletus
bluetongue virus in, in Australia 866	olfactory system in, evolution of 3132	host-seeking in 417
conference on 127	Culicoides filicinus	in USA 417
control of, insecticides for, testing of	genitalia in 416	in USSR 1024, 1030
1842	taxonomy of, characters distinguishing C.	on birds, in Ukraine 1024
descriptions of 131	abchazicus and 416	on livestock, in New York State 417
in Australia 2652	Culicoides florenciae	seasonal abundance of 1030
in Colombia 2141	descriptions of 2141	Culicoides occidentalis
in Florida 131	in Colombia 2141	aggregation in 2385
in Morocco 3304	Culicoides furens	control of
in Queensland 2143	control of, insecticides for 626	biological 2385
in South Africa 84	in Cayman Islands 626	growth regulators for 2385
in Transbaikalia 1030		
in USSR 2647	Culicoides geigelensis, in Yugoslavia 414	insecticides for 2.385
111 UUUIL 2071	Culicoides gejgelensis, in Yugoslavia 414	insecticides for 2385
	Culicoides grahamii	in USA 2385
in decomposing Myriophyllum, in North	Culicoides grahamii Dipetalonema perstans in, transmission of	in USA 2385 on man, in California 2385
	Culicoides grahamii	in USA 2385
in decomposing Myriophyllum, in North	Culicoides grahamii Dipetalonema perstans in, transmission of	in USA 2385 on man, in California 2385

in France 1574		0.1
	Chandlerella chitwoodae in, infectivity of	Coelomomyces psorophorae in, culturing
in USSR 1024	2651	of 1237
in Yugoslavia 414	in Canada 2651	control of
on birds, in Ukraine 1024	Culicoides subfasciipennis	biological 2084
Culicoides onderstepoortensis, in South	breeding places of 1574	insecticides for 78, 2111
Africa 84	in France 1574	Dirofilaria immitis in, in California 208
Culicoides ornatus	Culicoides subimmaculatus	in Canada 1243, 1809
descriptions of 863	in Australia 2143	in USA 1790, 2043, 2083, 2084, 2111,
in Australia 863	on man, in Queensland 2143	2118, 3212
Culicoides owyheensis	seasonal abundance of 2143	in ponds, effects of aquatic plants on
in USA 3282	traps for 2143	1243
on sheep, in Idaho 3282	Culicoides travisi	insecticide resistance in, in Utah 3212
Culicoides palmerae	Chandlerella chitwoodae in, infectivity of	nutrition of 1238
flight activity in 2384	2651	predators of, effects of aquatic plants on
in USA 2384	in Canada 2651	1243
seasonal abundance of 2384	Culicoides variipennis	Romanomermis nielseni in, development
Culicoides pancensis	biology of 2388	of 1817
sp. nov., description of 2141	bluetongue virus in	Trichomycetes in, in Nebraska 2043
in Colombia 2141	detecting of 627	western equine encephalitis, virus in, in
Culicoides paraensis	in Idaho 3282	
		Manitoba 1809
biology of 2657	replication of 138	Culiseta longiareolata
in Brazil 2655, 2656, 2657, 3224	emergence in 1575	autogeny in 1239, 1532
on man, in Brazil 2655, 2656, 2657	flight activity in 2384	biology of 2364
Oropouche virus in	host-seeking in 417	chromosomes in 388
in Brazil 3224	in USA 417, 1575, 2384, 2388, 3282	staining of 1831
transmission of 2658	on livestock, in New York State 417	in Azores 1239
Culicoides phlebotomus	on sheep, in Idaho 3282	in Portugal 1532
	rearing of, techniques for 628	in South Africa 84, 2364
feeding behaviour in 2387	seasonal abundance of 2384	stenogamy in 1239
flight activity in 2387	traps for 1575	Culiseta melanura
in Trinidad and Tobago 2386, 2387	Culicoides variipennis variipennis	eastern equine encephalitis, virus in, in
Mansonella ozzardi in, in Trinidad 2386	in USA 3301	New York State 3246
on man, in Trinidad 2386, 2387		
traps for 2387	rearing of, techniques for 3301 Culicoides venustus	in USA 1528, 1529, 3246
Culicoides pulicaris		on birds, in New York State 1529
in USSR 1030	feeding behaviour in 2965	population dynamics of 1529
seasonal abundance of 1030	host-seeking in 417	western equine encephalitis, virus in, in
	in USA 417, 2965	New York State 3246
group of, taxonomy of, wing patterns as	on cattle, in New York State 2965	Culiseta morsitans
characters for 3305	on livestock, in New York State 417	control of, biological 1250
Culicoides pulicaris punctatus (see C.	Culicoides vidourlensis, in Yugoslavia 414	Entomophthora aquatica in 1563
punctatus)	Culicoides williwilli	in German Federal Republic 1250
Culicoides pumilus	descriptions of 863	in USSR 1024
breeding places of 1574	in Australia 863	on waterfowl, in Ukraine 1024
in France 1574	Culicoidini, key 863	Culiseta particeps
Culicoides punctatus	Culiseta	descriptions of 2069
breeding places of 2962	control of 3265	taxonomy of, characters distinguishing C
in USSR 2647, 2962	biological 2346	annulata and 3248
seasonal abundance of 2647, 2962	in Canada 1533	Culiseta subochrea
Culicoides punctatus punctatus	in Canary Islands 2071	descriptions of 2069
		taxonomy of characters distinguishing C
in USSR 1024	in Cuba 849	taxonomy of, characters distinguishing C
in USSR 1024 on birds, in Ukraine 1024	in Cuba 849 in Finland 2957	annulata and 3248
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus	in Cuba 849 in Finland 2957 in France 3265	annulata and 3248 cultrata, Bakerdania
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863	in Cuba [*] 849 in Finland 2957 in France 3265 in Hokkaido 603	annulata and 3248 cultrata, Bakerdania cunicularia, Formica
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of,	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Spilopsylla cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides reiethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides salinarius in USSR 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides salinarius in USSR 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides sanguisus in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisusa host-seeking in 417 in USA 417 on livestock, in New York State 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides reiethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides salinarius in USSR 1024 on birds, in Neraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides seifadinei, in Yugoslavia 414 Culicoides similis, in South Africa 84 Culicoides similis, in South Africa 84 Culicoides similis, in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides reiethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saeguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides seigladinei, in Yugoslavia 414 Culicoides simulis, in South Africa 84 Culicoides simulator in USSR 2647	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides saevus, in South Africa 84 Culicoides schultzei, in South Africa 84	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides saevus, in South Africa 84 Culicoides schultzei, in South Africa 84 Culicoides similator in USSR 2647 seasonal abundance of 2647 Culicoides sinaneensis	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora (Dasypyrellia)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides reiethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saejus in China 2649 Culicoides saejus in Ukraine 1024 Culicoides saejus in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simunoensis in USSR 2966	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora (Dasyphora cyanella)
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saeius, in China 2649 Culicoides saeiusius in USSR 1024 on birds, in Ukraine 1024 Culicoides saeiusius in USSR 1024 on birds, in Wraine 1024 Culicoides saeiusius in USSR 1024 on birds, in Wraine 1024 Culicoides saeiusius host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides sinanoensis in USSR 2966 life-cycle of 2966	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora cyanella, Dasyphora cyanella, Dasyphora
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 On birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides sanguisuga in USSR 1024 on birds, in Ukraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides sinanoensis in USSR 2966 life-cycle of 2966 population age structure in 2966	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculi, Psoroptes cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora Cyanella) cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides retethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides salinarius in USSR 1024 on birds, in Ukraine 1024 Culicoides salinarius in USSR 1024 on birds, in Neraine 1024 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides sejfadinei, in Yugoslavia 414 Culicoides similis, in South Africa 84 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saeiunarius in USSR 1024 on birds, in China 2649 Culicoides saeiunarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saeiunarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saeiunarius in USSR 1024 on birds, in Openation 1024 Culicoides saeiunarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saeiunius in USSR 1024 on birds, in South Africa 84 Culicoides schultzei, in South Africa 84 Culicoides similis, in South Africa 84 Culicoides similis, in South Africa 84 Culicoides similis, in South Africa 84 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides sinanoensis in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides sailnarius in USSR 1024 on birds, in Ukraine 1024 Culicoides saevus, in China 2649 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides seifadinei, in Yugoslavia 414 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2667 seasonal abundance of 2647 Culicoides sinanoensis in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417 in USA 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238 oviposition repellents for 1209	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Psoroptes cuniculii, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanella, Dasyphora (Dasypyrellia) cyanella, Dasypyrellia (see Dasyphora cyanella, Dasypyrellia (see Dasyphora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8 (1-methylethyl)-
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides rethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides sanguisuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides similator in USSR 2647 seasonal abundance of 2647 Culicoides schultzei, in South Africa 84 Culicoides similator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238 oviposition repellents for 1209 Culiseta inornata	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cunicularis, Xenopsylla cuniculi, Psoroptes cuniculi, Spilopsyllus cunninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8 (1-methylethyl)- [S-(1E, 6E)]-
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saejusuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides seifadinei, in Yugoslavia 414 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides stellifer	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238 oviposition repellents for 1209 Culiseta inornata abdominal skeleton and muscles in 2615	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8 (1-methylethyl)- [S-(1E,6E)]- Periplaneta americana
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 on sheep, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides saevus, in South Africa 84 Culicoides seinaliare, in Yugoslavia 414 Culicoides seinulator in USSR 2647 seasonal abundance of 2647 Culicoides simunoensis in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides stellifer host-seeking in 417	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 in secticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238 oviposition repellents for 1209 Culiseta inornata abdominal skeleton and muscles in 2615 Cache Valley virus in	annulata and 3248 cultrata, Bakerdania cunicularis, Formica cuniculii, Psoroptes cuniculii, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8 (1-methylethyl)- [S-(1E,6E]- Periplaneta americana electroantennogram responses to
in USSR 1024 on birds, in Ukraine 1024 Culicoides purus descriptions of 863 in Australia 863 Culicoides pycnostictus in South Africa 84 on birds, in South Africa 84 Culicoides reconditus in USSR 1024 on birds, in Ukraine 1024 Culicoides riethi in USSR 2647 preyed on by, Elaphrus cupreus 3299 seasonal abundance of 2647 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saevus, in China 1024 Culicoides saevus, in China 2649 Culicoides saevus, in China 2649 Culicoides saejusuga host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides schultzei, in South Africa 84 Culicoides seifadinei, in Yugoslavia 414 Culicoides simulator in USSR 2647 seasonal abundance of 2647 Culicoides simulator in USSR 2966 life-cycle of 2966 population age structure in 2966 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides spinosus host-seeking in 417 in USA 417 on livestock, in New York State 417 Culicoides stellifer	in Cuba 849 in Finland 2957 in France 3265 in Hokkaido 603 in Quebec 2881 in Soviet Maritime Territory 3264 in Spain 2941 in USSR 1548 larvae of, distinguishing instars of 2611 on man, in Ukraine 1024 seasonal abundance of 2957 Culiseta alaskaensis, taxonomy of, characters distinguishing C. annulata and 3248 Culiseta annulata descriptions of 2069 in France 3199 in USA 3248 in USSR 3263 in buildings, in District of Columbia 3248 larval diet of 3263 overwintering in 3248 taxonomy of, characters distinguishing other Culiseta species and 3248 Culiseta atlantica descriptions of 2069 in Azores 2069 Culiseta incidens control of biological 2916 insecticides for 78 descriptions of 2069 in USA 2083, 2118, 2916 in cemetery vases, in California 2916 nutrition of 1238 oviposition repellents for 1209 Culiseta inornata abdominal skeleton and muscles in 2615	annulata and 3248 cultrata, Bakerdania cunicularia, Formica cuniculii, Psoroptes cuniculii, Spilopsyllus cuninghamae, Chatia cupreus, Elaphrus cuprina, Lucilia (Phaenicia) cuprina, Phaenicia (see Lucilia cuprina) Cupronaphthe, acaricidal activity of 955 Curação (indexed under Netherlands Antilles) Curettage for removing eggs of Tunga penetrans from man 48 for removing Tunga penetrans 52, 566 Cuterebra fontinella in Canada 155 on man, in Ontario 155 Cuterebra grisea in Canada 1340 on Microtus townsendii, effects of 1340 Cuterebra lepivora aggregation in 2165 in USA 2165 territoriality in 2165 Cyanamide, against, Musca domestica 137 cyanella, Dasyphora (Dasypyrellia) cyanescens, Psorophora Cyanescens, Psorophora Cyanophyta, eaten by Simulium larvae 1037 1,6-Cyclodecadiene, 1-methyl-5-methylene-8 (1-methylethyl)- [S-(1E,6E)]- Periplaneta americana

β-Cyclodextrin, pyrethroids formulated in 1437 Cyclohexanamine, N-dodecyl-N-methyl-, against, Psoroptes spp. 2488 Cyclohexane, 1,2,3,4,5,6-hexachloro- (see $(1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)$ - (see Lindane) Cyclohexanecarboxamide, N,N-dipropyl-, repellent for, Panstrongylus megistus, on Cyclohexanol, 5-methyl-2-(1-methylethyl)-, Periplaneta americana olfactory responses to 797
3-Cyclohexene-1-methanol, α,4-dimethyl-α- 3-Cyclohexene-1-methanol, α,4-dimethyl (4-methyl-3-pentenyl)-, repellent for, Panstrongylus megistus, on rat 39
 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethyl)-, (S)-, in Blumea oil, probably not involved in insecticidal activity 2056
 Cycloheximidation Particular Section (2014) Cycloheximide, in Periplaneta americana, increasing susceptibility to carbaryl 2505 Cyclopropanecarboxylic acid, 3-(2-carboxy1-propenyl)-2,2-dimethyl-, laboratory
synthesis of 1434
Cyclopropanecarboxylic acid, 3-(2-chloro3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-,
cyano(3-phenoxyphenyl)methyl ester (see Cyhalothrin) Cyclopropanecarboxylic acid, 3-(1,2-dibromo-2,2-dichloroethyl)-2,2-dimethylcyano(3-phenoxyphenyl)methyl ester against Calliphora vicina 1440
Blattella germanica 1440
insecticidal activity of stereoisomers of 1440 Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethylcyano(3-phenoxyphenyl)methyl ester, (1Rcis)against Psorophora columbiae 1193
Anopheles quadrimaculatus 1193
synergists for, piperonyl butoxide as
1193 cyano(3-phenoxyphenyl)methyl ester, [1R-[1 $\alpha(S^*)$,3 α]]against Culex molestus 75 Anopheles atroparvus 75 Culicidae 78 Aedes vexans 387 A. cantans 387 Culex molestus 401 Glossina palpalis 4: G. tachinoides 435 435 Rhipicephalus appendiculatus 699 Musca domestica 1144 Blattella germanica 1144 Psorophora columbiae 1193 Anopheles quadrimaculatus 1193 Glossina palpalis 1326 1326 1378, 1439 Musca domestica Calliphora vicina 1440 Blattella germanica 1440 Panstrongylus megistus
Ixodes ricinus 1639
Glossina spp. 1696, 1697
Triatoma infestans 1746
Glossina palpalis 1875 1507 1696, 1697 Glossina palpalis 18 G. tachinoides 1875 Culicidae 2111 Culicidae 2111
Glossina palpalis 2157
G. tachinoides 2157, 2401, 2982
G. palpalis 2986
G. tachinoides 2986
G. palpalis 2987
G. tachinoides 2987
G. spp. 2989, 2990, 2991
G. pallicera 2992
G. pigrisca 2992
G. pigrisca 2992 G. nigrofusca 2992 Amblyomma americanum 3059 Chironomidae 3346 Chironomidae 3346 in aerial sprays, deposition of 2401 in Caridina africana, toxicity of 2982 in fish, toxicity of 2982 in Macrobrachium raridens, toxicity of 2982

in Periplaneta americana, neurotoxicity of 3435

Cyclopropanecarboxylic acid, 3-(2,2dibromoethenyl)-2,2-dimethyl- contd. cyano(3-phenoxyphenyl)methyl ester, [1R-[1a(S*),3a]]- contd. in Rhodnius prolixus, effects on neurosecretory system of 1182 in savanna, non-target effects of 2157 non-target effects of 876 on walls, persistence of 401 persistence of 1326 synergists for, piperonyl butoxide as 1193 Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-cyano(3-phenoxyphenyl)methyl ester (see Cypermethrin) (3-phenoxyphenyl)methyl ester (see Permethrin) (3-phenoxyphenyl)methyl ester, (1RS-trans)- (see Transpermethrin) trans)- (see Transpermethrin)
(3-phenoxyphenyl)methyl ester, (1Rtrans)- (see Biopermethrin)
[3-(phenylmethyl)-1H-pyrrol-1-yl]methyl
ester, against, Musca domestica 2502
Cyclopropanecarboxylic acid, 3-[(dihydro-2oxo-3(2H)-thienylidene)methyl]-2,2dimethyldimethyl-[5-(phenylmethyl)-3-furanyl]methyl ester, $[1R-[1\alpha,3\alpha(E)]]$ against Musca domestica 1144 Blattella germanica 1144 Panstrongylus megistus 1507 in Periplaneta americana, neurotoxicity of 3435 Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)- (see Chrysanthemic acid) (6-chloro-1,3-benzodioxol-5-yl)methyl ester (see Barthrin) (1,3,4,5,6,7-hexahydro-1,3-dioxo-2*H*-isoindol-2-yl)methyl ester (see Tetramethrin)
2-methyl-4-oxo-3-(2-propenyl)-2cyclopenten-1-yl ester (see Allethrin)
(3-phenoxyphenyl)methyl ester (see Phenothrin) [5-(phenylmethyl)-3-furanyl]methyl ester (see Resmethrin) (see Resmethrin)
[5-(phenylmethyl)-3-furanyl]methyl ester,
(1R-cis)- (see Cismethrin)
[5-(phenylmethyl)-3-furanyl]methyl ester,
(1R-trans)- (see Bioresmethrin)
Cyclopropanecarboxylic acid, 2,2,3,3tetramethyl-, cyano(3phenoxyphenyl)methyl ester (see
Fenpropathrin)
Cyclops, in ponds, effects of ineset growth Cyclops, in ponds, effects of insect growth regulators on 2412, 3024 Cyclops aequatorialis (see Mesocyclops leuckarti aequatorialis) Cyclops leuckarti (see Mesocyclops leuckarti) Cyclops nigerianus (see Thermocyclops infrequens nigerianus)
Cyclops vernalis (see Acanthocyclops vernalis) Cyclorrhapha, in Finland 2344
Cydistomyia emergens
feeding habits of 2716
in South Africa 2716 on man, in South Africa 2716

Cyhalothrin (cyano(3-phenoxyphenyl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate) against, Musca domestica 1439

Cythologous strategy, investigal activities Cymbopogon citratus, insecticidal activity of oil from 2879 cynipsea, Sepsis cynotis, Otodectes Cypermethrin (cyano(3phenoxyphenyl)methyl 3-(2,2dichloroethenyl)-2,2dimethylcyclopropanecarboxylate) against Anopheles quadrimaculatus 1193 Blattella germanica 657, 1144, 1440 Calliphora vicina 1440 Damalinia bovis, on cattle 1 Glossina palpalis 1326, 2157

G. tachinoides 2157

```
Cypermethrin contd.
   against contd.
       Musca domestica 657, 1144, 1378
Psorophora columbiae 1193
       Sarcoptes scabiei, on pig 1959
    in Periplaneta americana, neurotoxicity of
         3435
   in savanna, non-target effects of 2157 insecticidal activity of 1438
    insecticidal activity of stereoisomers of
         1440
   non-target effects of 876 persistence of 1326
   synergists for, piperonyl butoxide as 1193
(1RS-cis)-, against, Chironomidae 3346 [1RS-[1α(S*),3α]]-, against, Culicidae 7 Cyperus esculentus, Aedes vexans oviposition sites associated with 2612
Cypridopsis, in ponds, effects of insect growth regulators on 3024
Cyprinodon macularius
   adaptability to salinity of 1543
in ponds, effects on ecosystem of 1543
in rice-fields, effects on ecosystem of
Cyprinodon variegatus, preying on,
Culicidae, in New Jersey 3207
cyprium, Amblyomma
cyprius, Aedes
Cyprus
   medical entomology in 3267
mosquito control in 370
Cystic fibrosis, in man, not affecting feeding
by Aedes aegypti 621
cysticola, Laminosioptes
L-Cystine
   in Aedes togoi, utilisation by Brugia patei
        of 68
    in Anopheles atroparvus, utilisation by
         Brugia patei of 68
Cytochrome oxidase (see Oxidase,
     cytochrome)
Cytochrome c oxidase (see Oxidase,
cytochrome)
Cytochrome P-450
in Calliphoridae, induction of 2712
in Musca domestica
       not involved in insecticide resistance
            1606
       variation in 2379
Cytoecetes phagocytophila, in, Ixodes ricinus, in ovaries 1396
Czechoslovakia
    Acari in, on small mammals
   Aedes spp. in, on cattle 3230
A. cantans in 387, 2942
   A. caspius in, viruses in 1560
A. pulchritarsis in 2065
A. vexans in 387, 2942
viruses in 1560
    Chaetopsylla matina in, on Vulpes
    Dermacentor reticulatus in 238
    Hippoboscidae in 190
   Hypotosudae in 190
Hypoderma bovis in, on cattle 20
Ixodes laguri in, on Citellus 239
I. ricinus in 924, 1639
viruses in 3069
Megnetics service 2016
   Meoneura spp. in 3016
Mesostigmata in, on small mammals
    Phoridae in 204
    Ruttenia loxodontis in, on zoo elephant
         2451
    Sarcophaga incisilobata in, on man 897
   Simulium erythrocephalum in 1857
Siphonaptera in, in suslik nests 362
Tabanidae in 189
Tabanus spp. in, on cattle 3230
dacenkoi, Catallagia
dacotensis, Cnephia
Dactinomycin, in Periplaneta americana,
     increasing susceptibility to carbaryl
     2505
daghestanicus, Dermacentor
dahli, Latrodectus
Dahomey (see Benin)
Dairies, Stomoxys calcitrans in, in USA
904
Dairy-waste lagoons
Culicidae in, in California 2120
mosquito control in 2120
daitensis, Aedes
```

		10
dali, Muritrombicula	DDT contd.	DDT contd.
Damalinia bovis	against contd.	with disulfiram, and phenylmethyl
biology of 2291, 2853	Glossina palpalis contd.	benzoate, against, Sarcoptes scabiei, o
control of 2853	in riverine forests 1698	man 292, 1673
insecticides for 1742	Ixodes persulcatus 716, 977, 1035,	with HCH
in Canada 1742	1036	against
in New Zealand 2290, 2291	Musca domestica 528, 1430	Anopheles atroparvus 75
in USA 2853	Neopsylla sondaica 565, 1190	Culex molestus 75
on cattle	Phlebotominae 1261, 1265	DDT analogues, in Periplaneta americana,
distribution pattern of 2291	Phlebotomus argentipes 1263	structure-activity relationships in 3123
in New Zealand 2290	Sarcoptes scabiei, on camel 3093	p,p'-DDT (1,1'-(2,2,2-
in Ontario 1742	Sergentomyia baghdadis 1260	trichloroethylidene)bis[4-chlorobenzene]
in USA 2853	S. shorttii 1260	in Aedes aegypti, uptake and metabolism
seasonal abundance of 2290	Siphonaptera 2868	of 2960
Damalinia longicornis (see Rhabdopedilon	Stivalius cognatus 565, 1190, 2819	in Gambusia affinis, inducing vitellogenia
longicornis)	on Rattus 3188	synthesis 3129
Damalinia ovis	Xenopsylla cheopis, on Rattus 3188	in Periplaneta americana, effects of 552
control of 2524	in Anopheles atroparvus, flight activity	DDVP (see Dichlorvos)
descriptions of 2850	caused by 2878	Death
in Spain 2850	in Anopheles gambiae, not affecting	in Asian buffalo, caused by Haematopinu
in USA 2524	Plasmodium yoelii 824	tuberculatus 2250
on sheep	in Anopheles maculipennis, effects on	in cattle, caused by Simulium nigrum
in Spain 2850	behaviour of 95	2973
in Wyoming 2524	in Anopheles stephensi, not affecting	in dog, caused by Simulium nigrum 29
γ-radiation as affecting 30	Plasmodium yoelii 824	in fowl
Damaliscus dorcas	in building materials, persistence of 2039	caused by arthropods 1493
arthropod parasites of, in South Africa	in Buphagus erythrorhynchus, toxicity of	caused by lice 2013
1888	1643	in goat, caused by Simulium nigrum
pest control on 1888	in fish, residues of 1274	2973
dammini, Ixodes	in fowl, residues of 1430	in guineafowl, caused by arthropods
damnosum, Simulium	in Gambusia affinis, toxicity of 2794	1493
Daphnia magna, Bacillus thuringiensis in,	in Lucilia cuprina, effects of γ -irradiation	in man, caused by scorpion sting 1007
not pathogenic 1797	on susceptibility to 888	in pig, caused by Vespula 914
darimonti, Tabanus	in man, uptake through skin of 292	in sheep, caused by Simulium nigrum
darlingi, Anopheles	in mouse, effects on natural immunity of 1013	2973 dahilia Vanangulla
dasycnema, Doratopsylla Dasyhelea, mouthparts in 3300	in Musca domestica	debilis, Xenopsylla
		Decafentin (see Phosphonium, decyltriphenyl-, bromochlorotriphenylsta
Dasyhelea dufouri in Spain 129	enzyme inhibition by 879 inducing mixed function oxidase 909	nnate(1-))
in tree holes, in Spain 129	poisoning by 207	Decamethonium (N,N,N,N',N',N'-
dasyorrhus, Aedes	resistance to, in	hexamethyl-1,10-decanediaminium)
Dasyphora, in Norway 881	Aedes aegypti, mechanisms of 2960	in Musca domestica, binding to head
Dasyphora cyanella (see also Dasypyrellia	Anopheles annularis, in Pakistan 1775	extracts of 1347
cyanella)	A. atroparvus, in Caucasus 2596	Decamethrin (see Cyclopropanecarboxylic
in Norway 881	A. culicifacies 1541, 3218	acid, 3-(2,2-dibromoethenyl)-2,2-
Dasypyrellia, taxonomy of, synonym of	in Andhra Pradesh 607	dimethyl-, cyano(3-
Eudasyphora 683	in India 2054	phenoxyphenyl)methyl ester, [1R-
Dasypyrellia cyanella (see also Dasyphora	in Pakistan 1775	$[1\alpha(S^*), 3\alpha]]$ -)
cyanella)	A. darlingi, in Brazil 1767	1,10-Decanediaminium, N,N,N,N',N',N'-
in UK 220	A. fluviatilis, relation of sulfur content	hexamethyl- (see Decamethonium)
in dog dung, in England 220	and 2926	Decarboxylase, aromatic amino acid
daubentoni, Pteracarus minutus	A. gambiae, preventing development of	in Aedes aegypti, characterisation of
Daucus carota (see Carrot)	824	1761
davisi, Lutzomyia (Psychodopygus)	A. hyrcanus, in Tajikistan 1758	in Lucilia cuprina, insecticidal activity of
davisi, Psychodopygus (see Lutzomyia	A. maculipennis	inhibitors of 1382
davisi)	in Caucasus 2596	Decarboxylase, DOPA (see Decarboxylase,
DDE (mixture of isomers in which p,p' -	in Iran 2911	aromatic amino acid)
DDE predominates)	A. messeae, in Caucasus 2596	decemlineata, Leptinotarsa
in man, DDT metabolite 292	A. pulcherrimus	decimatum, Simulium (Gnus)
p,p'-DDE (1,1'-(dichloroethenylidene)bis[4-	in Iraq 2917	decimatus, Gnus (see Simulium decimatum
chlorobenzene])	in Tajikistan 1758	Decis (see Cyclopropanecarboxylic acid, 3-
in Aedes aegypti, DDT metabolite 2960	A. sacharovi	(2,2-dibromoethenyl)-2,2-dimethyl-,
DDT (mixture of isomers in which p,p' -	in Iraq 2917	cyano(3-phenoxyphenyl)methyl ester,
DDT predominates)	in Turkey 76	$[1R-[1\alpha(S^*),3\alpha]]-)$
against 2640	A. stephensi	declarator, Culex
Aedes aegypti 2640 Anopheles spp. 86, 1075, 2039, 3267	and cross-resistance 3238 in India 2054	decoloratus, Boophilus decoratus, Listrophoroides
Anophetes spp. 86, 1075, 2039, 3267 A. atroparvus 75	in Iran 2012	decorum, Simulium
A. balabacensis 624	in Pakistan 1775	decorus, Chironomus
A. cruzii 1204	A. subpictus	Deer Deer
in dwellings 1203	in Pakistan 1775	Anopheles franciscanus on, in California
A. culicifacies 3218	in Pondicherry 2640	2083
A. fluviatilis 3270	A. superpictus, in Tajikistan 1758	Haemaphysalis concinna on, in Italy
A. funestus 1794	Blattella germanica, associated with	3062
in buildings 409	insensitive ATPase 1736	Hypoderma diana on, diagnosis of 652
A. gambiae 1794	Boophilus microplus, in South Africa	Tabanidae on, in Connecticut 1921, 244
in buildings 409	939	Deer farming, Ixodidae as affected by 341
A. labranchiae 2128	Cimex lectularius, loss of 2572	Deer, red (see Cervus elaphus)
A. letifer, in dwellings 598	Culex quinquefasciatus 2353, 3269	Deer, roe (see Capreolus capreolus)
A. messeae 404	in Pondicherry 2640	Deer, sika (see Cervus nippon)
A. nigerrimus 1775	C. whitmorei, in Pondicherry 2640	Deet (N, N-diethyl-3-methylbenzamide)
A. nili 1794	Culicidae	in clothing 1937
A. philippinensis 2054	not affecting susceptibility to Bacillus	ineffective as flushing agent for
A. pulcherrimus 1758, 1775	thuringiensis 2924	Panstrongylus megistus 1507
A. sacharovi 76	overcoming of 2887	repellent for
A. stephensi 2054, 2640	Phlebotomus papatasi, in Bihar 1263	Aedes spp., on cattle 3230
A. superpictus 1758	Siphonaptera 2315	A. aegypti 2347, 2374
Armigeres subalbatus 2640	vectors 2286	Amblyomma americanum, on man
Culex molestus 75	Xenopsylla cheopis, in Java 565, 1190,	1937 Ivodes ricinus 928
C. sitiens 2640	2819	Ixodes ricinus 928
C. tritaeniorhynchus 2640	synergists for	Panstrongylus megistus, on rat 39
Glossina spp. 2989, 2990	chlorfenethol as 2353, 3238	Simuliidae, on cattle 1288 Tabanus spp., on cattle 3230
G. palpalis 1326	piperonyl butoxide as 2353, 3238	1 avanus spp., on cattle 5250

on Eutamias minimus, in Colorado

3406

DEF (see Phosphorotrithioic acid, S,S,S-Demodex contd. Dengue virus contd. tributyl ester) on dog, effects of 2229 in contd. Defensive secretions on domestic animals, in Zambia Aedes contd. Periplaneta fuliginosa 2846 on man, role in blepharitis of 1666 A. albopictus P. japonica 2846 Vespa crabro 1631 on Odocoileus virginianus, effects of in Seychelles 1825 infectivity of 1526, 2883 2229 Dehydrogenase, in Anopheles, polymorphism of 1768 on zebu, in Malaysia 2538 taxonomy of 1001 transmission of 82 A. luteocephalus, in Senegal 1244 Demodex aurati
control of, acaricides for 282
descriptions of 282
in Israel 282 Dehydrogenase, glucose 6-phosphate man in Jamaica 845 in Senegal 1244 in Seychelles 1825 in Musca domestica role in energy production of 157 role in insecticide resistance of 879 isoenzymes, in Hyalomma, use in taxonomy of 934

Dehydrogenase, glyceraldehyde phosphate Toxorhynchites amboinensis, infectivity on golden hamster, in Israel 282 Demodex bovis of 2883 in Nigeria 521 vectors of 2801 on cattle, in Nigeria 521 isoenzymes Denmark Macrothylacia rubi in, on man 690 mites in, in house dust 280 Rhipicephalus sanguineus in, on dog 3400 in Culex ocossa 2923 Demodex brevis control of, acaricides for 726 on man, effects of 726 in Culex panocossa 2923 Dehydrogenase, glycerol phosphate in Phlebotominae, use as taxonomic character of 2967 Demodex cafferi in Botswana 2241 Tarsonemina in, in house dust 287 Densovirus, in, Periplaneta fuliginosa, characterisation of 547 on African buffalo, in Botswana 2241 Demodex canis isoenzymes in Aedes aegypti, activity pattern of 2034 control of, acaricides for 2766 in Culex pipiens, properties of 2940 Dehydrogenase, isocitrate fenchlorphos resistance in, in Queensland dentata, Sergentomyia dentatum, Omophron dentatus, Ixodes 2766 in Australia 2766 in Indonesia 2806 in Sudan 3418 in Aedes aegypti, genetics of 73 in Musca domestica, role in energy production of 157 Deoxyribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 2806 Dehydrogenase, lactate on dog on dog
effects of 2228, 3418
in Indonesia 2806
in Queensland 2766
taxonomy of, characters distinguishing D.
cati and 279 in Aedes aegypti, activity pattern of 2034 in Calliphora vicina effects of methoprene on synthesis of in Periplaneta americana coxal muscles, heterogeneity of 794 3354 effects of moulting hormones on synthesis of 3354 isoenzymes, in Hyalomma, use in taxonomy of 934

Dehydrogenase, malate in Lutzomyia umbratilis 140 in Haematobia irritans ovaries 898 Demodex caprae karyotype of, anomalous leg development in Leucophaea maderae ovarian follicles, and 927 JH stimulating synthesis of 24, 25 in Leucophaea maderae ovaries
role of JH in synthesis of 1732
synthesis of 2558
in Musca domestica eggs, effects of γirradiation on 478 in Phlebotominae, use as taxonomic character of 2967 on goat, distribution pattern of 988 Demodex cati control of, acaricides for 2234 isoenzymes in Aedes aegypti, activity pattern of 2034 description of 279 in USA 279, 2234 on cat, in Massachusetts 279 on *Uncia uncia*, in San Antonio Zoo in *Hyalomma*, use in taxonomy of 934 in *Triatoma infestans* 41 in Periplaneta americana, effects of thermal acclimation on 1490 in Sarcophaga bullata mid-gut, effects of Dehydrogenase, malate (oxalacetate-2234 diet on 158 in Stomoxys calcitrans, diflubenzuron decarboxylating) (nicotinamide adenine taxonomy of dinucleotide phosphate) characters distinguishing D. canis and in Hyalomma impressum eggs, not found 279 inhibiting synthesis of 3367 neotype for 279 Depressaria angustati in Canada 2617 Demodex cricetic control of, acaricides for 282 descriptions of 282 in Israel 282 in Hyalomma anatolicum eggs, not found on Cicuta douglasii, in British Columbia 2617 Dehydrogenase, phosphogluconate in Musca domestica properties of 2171 role in insecticide resistance of 879 parasites of, in British Columbia 2617 on golden hamster, in Israel 282 Dermacarus ochotonae sp. nov., description of 2772 in Pakistan 2772 Demodex folliculorum isoenzymes, in Culex pipiens 369 control of, acaricides for 726, 1665 descriptions of 1415 in France 1665 Dehydrogenase, succinate on Ochotona rufescens, in Pakistan 2772 in Babesia ovis sporozoites Dermacentor in Periplaneta americana, effects of Congo virus in, transmission of 1945 control of 1480 in Italy 3064 on dog, in France 1665 Heterometrus fulvipes venom on on man blepharitis caused by 1415 effects of 726 2784 in Periplaneta americana coxal muscles, heterogeneity of 794 in Theileria annulata sporozoites 3077 on livestock, in Mongolia 1480 on Microtus arvalis, in USSR 496 Pasteurella tularensis in, transmission of Demodex ghanensis in Nigeria 521 on cattle, in Nigeria 521 Dehydrogenase, xanthine Demodex zalophi isoenzymes Powassan virus in, transmission of 3137 sp. nov., description of 2228 in Australia 2228 in USA 2228, 2229 sex-pheromone glands in 2744 spotted-fever rickettsiae in, transmission of in Čulex ocossa 2923 in Culex panocossa 2923 Delia antiqua 3137 marking of, radiophosphorus for 754 mating in, detecting of 754

Delichon urbica, Hippoboscidae in nests of, in Czechoslovakia 190 on Zalophus californianus, effects of 2228, 2229 tick-borne encephalitis, virus in, transmission of 2733 Dermacentor albipictus
in Canada 556
in USA 1398
on demestic animals, in Connecticut Demodicidae, speciation in, synhospitaly and 921 deliense, Leptotrombidium deliensis, Trombicula akamushi (see Dendroica coronata, Ceratophyllus gallinae on, in Alaska 1187 Leptotrombidium deliense) 1398 Dendrolaelaps Delostichus, on Rodentia, in Argentina 357 in Transbaikalia on Odocoileus, in Alberta 556 Deltamethria (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1a(S*),3a]]-) in USSR 1006 Dermacentor andersoni Anaplasma marginale in, morphology of 2222 Dendrophaonia querceti, in China 1618 dendrophilus, Culicoides antigens of, inducing host resistance 3067 Dengue in French Guiana 1154
in Puerto Rico 3247
Dengue hemorrhagic fever (see Hemorrhagic Delusions Babesia microti in, not transmitted 242 concerning arthropod infestations 1420 concerning noxious arthropods 1136 Colorado tick fever fever, dengue)

Dengue virus virus in in Colorado 1403, 3406 transmission of 3137 Dermatophilus congolensis in, control of, vector control for 115 control of 2524 transmission of immunization for 3390 in USA 1403, 2524, 3065, 3406 on cat, in Western Australia 3104 Aedes spp., in Tonga 1236 on cattle A. aegypti effects of 521 in Nigeria 245

replication of 85 transmission of 82, 390

Dermacentor andersoni contd.	Dermacentor variabilis contd.	Dermatophagoides farinae contd.
on guinea-pig, immunization against	gut in, passage of host macromolecules	antigens of 3097
on Peromyscus maniculatus, in Colorado	across 3402 in USA 234, 248, 278, 967, 1398, 1408,	biotopes of 517
1403	2465	control of, dust control for 1426 enzymes in, and in house dust 1964
on sheep, in Wyoming 2524	on dog	in Canada 1671
on Spermophilus lateralis, in Colorado	in Connecticut 1398	in India 2773
1403, 3406	in New York 278	in Japan 727
phospholipids in, developmental changes	on man, in Connecticut 1398	in South Korea 2763
in 2757	on Microtus pennsylvanicus, in	in USA 1420
Rickettsia rickettsi in, transmission of 966	Connecticut 248 on <i>Peromyscus leucopus</i> , in Connecticut	in dwellings, in Uttar Pradesh 2773 in hospitals, in Uttar Pradesh 2773
salivary glands in 2477	248	in house dust
sex pheromone of, storage of 3404	on Procyon lotor, in Connecticut 248	in Japan 727
spotted-fever rickettsiae in, in Montana	on rabbit	in Ohio 1420
3065	antibodies to 3402	in mattress dust, in British Columbia
sugars in, developmental changes in	feeding by 273 on rat, resistance to 1407	1671 in schools, in Uttar Pradesh 2773
1400	on wildlife, in Oklahoma 2465	on man
tick-borne encephalitis, virus in, infectivity	Rickettsia montana in	hypersensitivity to 923, 991, 1420,
of, effects of immunization on 3390 Dermacentor daghestanicus	in Massachusetts 967	1958, 3108, 3110
in USSR 1636	in Ohio 234	diagnosis of 723, 989, 990
olfactory sensilla in 3409	R. prowazekii in, not transmitted 3066 R. rickettsi in	seasonal variation in 2227 treatment of 1426
Salmonella typhimurium in, trans-stadial	in Massachusetts 967	on mouse, immunization against 1418
transmission of 3084	in Ohio 234	seasonal abundance of 1671
Dermacentor marginatus	transmission of 966	Dermatophagoides microceras, on man,
Bhanja virus in, transmission of 2233	salivary glands in 2477	hypersensitivity to 923
Coxiella burneti in, in Kirgizia 1688 habitats of 1072	seasonal abundance of 248 sex pheromone of, storage of 3404	Dermatophagoides pteronyssinus activity in
in Italy 3064	spotted-fever rickettsiae in, in New York	effects of humidity on 923
in Spain 2233, 2869	278	effects of temperature on 923
in USSR 1060, 1072, 1688, 3083	Dermanyssidae	allergens of 2492, 3111
in Yugoslavia 237, 701	chaetotaxy of 921	properties of 986, 987
on mule, in Italy 3064 on Mus musculus, in Crimea 1060	in Australasia 508 Dermanyssus	standardisation of 3107 antigens of 3097
on Oryctolagus cuniculus, in Spain 2869	control of, acaricides for 2687	biotopes of 517
on Rodentia, in Siberia 3083	on rabbit, in Upper Volta 2687	control of 1975
Rickettsia slovaca in	Dermanyssus americanus	dust control for 1426
transmission of 1647	control of, acaricides for 1670	development in
ultrastructure of 271 Salmonella typhimurium in, trans-stadial	in USA 1670 on man, dermatitis caused by 1670	effects of humidity on 1972 effects of temperature on 1972
transmission of 3084	Dermanyssus gallinae	enzymes in, and in house dust 1964
spotted-fever rickettsiae in, ultrastructure	carotenoids in, and in fowl 800	in Canada 1671
of 932	control of	in India 2773
tick-borne encephalitis, virus in, in	acaricides for 2242, 2564	in Japan 727
Kirgizia 1688 Dermacentor niveus	biological 1048 in Argentina 984	in Mexico 1127 in South Korea 2763
in Iran 2750	in Poland 2564	in UK 1975
on Ovis orientalis, in Iran 2750	in UK 2242	in bedding, in UK 1975
Dermacentor parumapertus, cell cultures	in dwellings, in Argentina 984	in dwellings, in Uttar Pradesh 2773
from 1469	on fowl, in Poland 2564	in hospitals, in Uttar Pradesh 2773
Dermacentor pictus in USSR 3083	on man, rash caused by 2242 Dermatitis	in house dust estimating of 1956
in Yugoslavia 701	in cat, caused by flea collars 2026	in Japan 727
on Rodentia, in Siberia 3083	in man	in Mexico 1127
physiological age of, mid-gut epithelium	caused by Cheyletiella 1965	in mattress dust, in British Columbia
as indicator of 706	caused by Dermanyssus americanus	1671
Salmonella typhimurium in, trans-stadial transmission of 3084	1670 caused by ectoparasites from pet	in schools, in Uttar Pradesh 2773 life-span in
Dermacentor raskemensis	animals 1417	effects of humidity on 1972
in Iran 2750	caused by fleas from pets 2872	effects of temperature on 1972
on goat, in Iran 2750	caused by Macrothylacia rubi 690	on man
on Ovis orientalis, in Iran 2750 Dermacentor reticulatus	caused by Ornithonyssus sylviarum 1672	antibodies to 1955
Babesia canis in, development of 272	caused by Paederus sabaeus 3049	hypersensitivity to 520, 724, 769, 923 1654, 1958, 1975, 2492, 3109, 3110
development in 238	caused by Pediculus humanus 769	3111, 3112
feeding behaviour in 1646	caused by pesticides 1684	diagnosis of 989, 990, 992, 1419
in Czechoslovakia 238	caused by Pyemotes tritici 769	treatment of 739, 1426, 2763
in France 2743 in Poland 238	caused by <i>Pyemotes ventricosus</i> 1657 caused by <i>Pyemotes zwoelferi</i> 1967	on rabbit, antibodies to 1956 seasonal abundance of 1671
in Spain 1117	caused by Trombiculidae 2811	Dermatophilus congolensis
in USSR 3399	in pig, caused by Sarcoptes scabiei 985	epizootiology of 777
in Yugoslavia 237	Dermatitis, atopic	vectors of 777
mapping of, with vegetation maps 2743	in man	Dermestes maculatus
on Cervus elaphus, in Spain 1117 Pasteurella tularensis in, in Yugoslavia	caused by Culicidae 1764 caused by Dermatophagoides farinae	control of barriers for 3057
237	1420	insecticides for 486, 3057
Rickettsia sibirica in, in Lithuania 3399	caused by Sarcophaga carnaria 769	gut in, passage of proteins through 200
Dermacentor silvarum	Dermatobia hominis	illustrations of 486
embryonic development in, effects of	antigens of 1588	in UK 486, 3057
humidity on 717 human activity as affecting 3411	control of 1589 on rabbit	in dwellings, in England 486 in poultry dung, in England 486
in USSR 3411	antibodies to 1588	in poultry dung, in England 480
oviposition in, effects of humidity on 717	immune responses to 3334	3057
Dermacentor variabilis	immunization against 1589	Naja mossambica venom in, toxicity of
Anaplasma marginale in	Dermatophagoides	200 Dermostidae preved on by Lovosceles
detecting of 2223 morphology of 2222	allergens of, in feces 2489 in house dust 287	Dermestidae, preyed on by, Loxosceles reclusa, in Iowa 3430
trans-stadial transmission of 2223	Dermatophagoides farinae	Dermoglyphidae, on budgerigar, in Japan
Babesia microti in, not transmitted 242	aggregation in 3424	288
carbon dioxide in, responses to 604	alarm pheromone in 1652	Dermoglyphus, on Colinus virginianus, in
engorgement in 273	allergens of, standardisation of 3106	USA 2001

```
492
Desantisca, parasitising, Latrodectus mactans, in Puerto Rico 3429
Desensitization, immunologic
    for treatment of hypersensitivity to Apis
         mellifera venom 2459
    for treatment of hypersensitivity to house-
         dust mites 724, 739
designatus, Pygmephorus
desmodus, Psorergatoides
Desmodus rotundus, Psorergatoides
     desmodus on, in French Guiana 736
desmotes, Aedes
destructor, Glycyphagus (see Lepidoglyphus
     destructor)
destructor)
Detox (see DDT)
detritum, Hyalomma
detritus, Aedes
Developing countries
Ixodoidea in, on cattle 714
    mosquito control in, manual
devia, Brachicoma
dewitti, Whartonia
Dewpoint, blood-feeding insects as affected by 2283
Dextran, in Musca domestica, permeability of Malpighian tubules to 3029
Diagnosis
    of blister-beetle poisoning in livestock
         230
   of Chagas' disease 351
of chorioptic mange in cattle 2761
of Haematopinus suis on pig 985
    of hypersensitivity to Apis mellifera
venom 1933
   of hypersensitivity to Cladotanytarsus lewisi 1596
   of hypersensitivity to house-dust mites 723, 989, 990, 992, 1419, 1654, 3420 of hypersensitivity to Hymenoptera stings 1389, 2455, 3383
    of Hypoderma infestation in man 652
    of myiasis 2453
    of respiratory acariasis in canary 1413 of scabies 514
                                985
    of scabies in pig
diana, Hypoderma
diannae, Schoengastia
diantaeus, Aedes
diaperinus, Alphitobius
Diaphanosoma brachyurum
    in USA 3024
in ponds, effects of insect growth
regulators on 3024
Diaptomus, in ponds, effects of insect
growth regulators on 3024

Diarrhea, in man, caused by Anastrepha
      1344
Diatomite (see Kieselguhr)
Diazinon (O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl]
     phosphorothioate)
    against
       Amblyomma spp. 703
A. americanum 3059
Argas persicus, in fowl housing 1718
       Blattella germanica 1733
in dwellings 796
Cimex lectularius, in fowl housing
             1718
        Culex molestus 401
       Hippobosca spp., on cattle 2820 Ixodoidea, on cattle 2820
        Lucilia cuprina, on sheep
                                                169, 1924,
             2174
        Ornithodoros lahorensis 3410
  Psoroptes ovis, on sheep 285, 3101
Stomoxys spp., on cattle 2820
formulations of, microencapsulated 17
in guinea-pig, toxicity of 1718
in poultry, toxicity of 1718
in sheep, persistence of 2563
in vole, toxicity of 1718
        Phlebotominae 2536
                                                           1733
    on walls, persistence of 401 resistance to, in
       Boophilus microplus, in South Africa 939
Culex pipiens 2604
Lucilia cuprina, in Queensland 194
Diceromyia, in tree holes, in Kenya 2876
Dichlofenthion (O-(2,4-dichlorophenyl) O,O-
     diethyl phosphorothioate)
```

```
Dichlofenthion contd
   against, Boophilus microplus, on cattle
        2746
   resistance to, in, Lucilia cuprina, in
         Queensland 194
Dichlorvos (2,2-dichloroethenyl dimethyl
     phosphate)
   against
       Aedes sierrensis, in tree holes 2108
       Anopheles culicifacies 3218
Blattaria 788
       Boophilus microplus, on cattle 2746
       Ceratophyllus gallinae, on fowl
      Cochliomyia hominivorax 1132, 2169
Culex quinquefasciatus 3269
C. tarsalis 2101
      C. Iasais 2011inae 2242
on fowl 2564
Goniocotes gallinae, on fowl 2564
Hypoderma spp., on cattle 2689
H. lineatum, on cattle 441
       Menacanthus stramineus, on fowl
            2564
       Menopon gallinae, on fowl 2564
Musca domestica 1893
Oestrus ovis, on sheep 3331
       Ornithodoros lahorensis 3410
Phlebotominae 2536
       Rhipicephalus sanguineus, in dwellings
       Sternostoma tracheacolum, on canary
            1413
   in foodstuffs, residues of 2267
in fowl, toxicity of 2564
resistance to, in, Culex pipiens 2604
   with crotoxyphos
       against
          Haematobia irritans, on cattle 191
Musca autumnalis, on cattle 1915
dickermani, Geomydoecus
Dicrocoelium dendriticum (see also
     Dicrocoelium lanceolatum)
       Cataglyphis aenescens, in Kirgizia 3053
   Clausilia spp., in Yugoslavia 688
Formica spp., in North Ossetia 1
F. gagates, in Yugoslavia 688
F. mesasiatica, in Kirgizia 3053
sheep, in Yugoslavia 688
vectors of 316
Dicrocoelium lanceatum (see D.
     dendriticum)
Dicrocoelium lanceolatum (see also
     Dicrocoelium dendriticum)
   control of 2727
       Cionella lubrica, in France 2727
Formica cunicularia, in France
                                                        2727
Formica cunicularia, in France 27.

F. nigricans, in France 2727
sheep, in France 2727
life history of 2727
Dicrostonyx groenlandicus, Megabothris
     calcarifer on, in Alaska 2322
Dicrotendipes californicus
   control of, insecticides for 3346 in USA 3346
   in flood-control channels, in California 3346
Dicrotophos ((E)-3-(dimethylamino)-1-
     methyl-3-oxo-1-propenyl dimethyl
     phosphate)
   resistance to, in, Boophilus microplus, in South Africa 939
Didelphis marsupialis, Rhodnius pallescens
on, in Panama 2576
Didelphis virginiana, ectoparasites of, in
Oregon 2302

Dieldrin ((1a\alpha,2\beta,2a\alpha,3\beta,6\beta,6a\alpha,7\beta,7a\alpha)-
3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-
octahydro-2,7:3,6-dimethanonaphth[2,3-
     b]oxirene)
   against
       Aedes aegypti 2640
       Anopheles culicifacies 3218
       A. fluviatilis 3270
       A. maculipennis 29
A. stephensi 2640
       Armigeres subalbatus 2640
Culex quinquefasciatus 2353
C. sitiens 2640
       Glossina spp.
                             1329
       G. morsitans 1330
```

```
Dieldrin contd.
   against contd.
       Glossina contd.
       G. tachinoides 2982
       Phlebotomus argentipes 1263
       P. papatasi 1263
       Psoroptes cuniculi 2487
       P. ovis 2487
       Stivalius cognatus 565, 1190, 2819
       Xenopsylla cheopis 565, 1190, 2819
   in Blaberus discoidalis
       metabolism of 332, 2010
       uptake of 332
   in fish, residues of 1274
   in Lucilia cuprina
       effects of \gamma-irradiation on susceptibility to 888
       effects on field performance of 2435
   in Musca domestica, inducing mixed
        function oxidase 909
    in Schistocerca gregaria, metabolism of
   non-target effects of 2404
   persistence of 1329, 1330
   resistance to, in
       Aedes aegypti, genetics of 3291
Anopheles annularis, in Pakistan 1775
       A. culicifacies
          in Andhra Pradesh 607
          in Pakistan 1775
       A. gambiae, genetics of 824
A. nigerrimus, in Pakistan 1775
       A. pulcherrimus, in Pakistan 1775
       A. stephensi
in Iran 2912
in Pakistan 1
A. subpictus
in Pakistan 1
                             1775
       in Pondicherry 2640

Boophilus microplus, in South Africa
939
       Cimex lectularius, persistence of 1184
       Culex quinquefasciatus, in Pondicherry 2640
       C. tritaeniorhynchus, in Pondicherry
            2640
       C. whitmorei, in Pondicherry 2640
Culicidae, not affecting susceptibility to
Bacillus thuringiensis 2924
       Lucilia cuprina
in Victoria 2199
          purposely linked to Y chromosome 2435
       vectors 2286
Diethylcarbamazine (N,N-diethyl-4-methyl-
     1-piperazinecarboxamide)
   against

Brugia malayi, in man 2140

Wuchereria bancrofti, in man 1794
difficilis, Hybomitra
difficilis, Xenopsylla
Diffingeria spinosa
   descriptions of 1890
   in, Culex pipiens, in USSR 1890
   taxonomy of, transferred from Weiseria
        1890
Diffingeria turgenica
in, Simuliidae 1890
taxonomy of, transferred from
Pleistophora 1890
diffinis, Ceratophyllus
Diflubenzuron (N-[[(4-
chlorophenyl)amino]carbonyl]-2,6-
     difluorobenzamide)
   against
      Andes aegypti 1453, 1710, 2829
A. caspius 1710
Anopheles messeae, in rice-fields 56
A. sundaicus 1554
Chironomidae 1366, 2412
Cricotopus sylvestris, in rice-fields 56
Culex pipiens 1710, 1754
       C. quinquefasciatus, in pig waste 374
       Manduca sexta 1453
  Manduca sexta 1453
Musca autumnalis 2829
M. domestica 1368, 1453
Plodia interpunctella 1453
Psoroptes cuniculi 2767
Tribolium confusum 1453
formulations of, controlled release 2829
in Anopheles gambiae, not affecting
Plasmodium yoelii 824
```

,		170
Diflubenzuron contd.	3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile,	Diptera contd.
in Anopheles stephensi, not affecting	4-ethoxy-7-phenyl-, 4-sulfide (see	pathogens in, modes of transmission of
Plasmodium yoelii 824	Phoxim)	1091
in Carcinus mediterraneus, effects of 69	Dioxacarb (2-(1,3-dioxolan-2-yl)phenyl	physiological age of, determining of 2874
in Culex pipiens, effects of 1754	methylcarbamate)	preyed on by
in Lepomis macrochirus, residues of	against	Crabro advena 1923
2109	Blattella germanica 771	Gambusia affinis, in California 2093
in Leucophaea maderae, inhibition of	Culex molestus 401 C. pipiens 761	pyrethroids in, toxicity of 876
chitin synthesis by 1453 in Lucilia cuprina, effects on chitin	Ixodes ricinus 1639	synanthropic
deposition of 911	Musca domestica 761, 773, 1893	in cattle farms, in USSR 1040 in pig farms, in USSR 1040
in Musca domestica	anticholinesterase activity of 761	taxonomy of 1719
delaying toxic effects of fluorine	in building materials, persistence of 771,	Dirhinini
compounds 1892	773	in Indian subregion 3056
transfer to eggs of 1368	in mouse, toxicity of 761	taxonomy of 3056
in natural waters, residues of 2109	on walls, persistence of 401	Dirhinus
in ponds, non-target effects of 2412, 3024	selective toxicity of 761 Dioxaphos, against, Hypoderma spp., on	in Indian subregion 3056
in Stomoxys calcitrans	cattle 2689	taxonomy of 3056
effects on cuticle formation of 656	Dioxathion (S,S'-1,4-dioxane-2,3-diyl	Dirhinus luzonensis
inhibition of chitin synthesis by 452	bis(O,O-diethyl phosphorodithioate))	parasitising
inhibition of DNA synthesis by 3367	against, Amblyomma spp. 703	Lucilia cuprina 480
not inhibiting chitin synthase 1901,	in dips, determination of 1010	Musca domestica 480
3032	resistance to, in, Boophilus microplus, in	Dirofilaria immitis
persistence of 2438 resistance to, in, Musca domestica,	South Africa 939 with chlorfenvinphos, in Buphagus	Aedes aegypti, infectivity of, genetics of
development of 466	erythrorhynchus, toxicity of 1643	1786
digitatum, Trichoprosopon	Dipetalogaster maxima, Trypanosoma cruzi	A. vexans
Diglochis hybomitri	in, isolating of 36	in Michigan 378
sp. nov., description of 156	Dipetalonema dessetae	transmission of 600
in USSR 156	in	Anopheles freeborni, in California
parasitising, Hybomitra spp., in USSR	Aedes aegypti, effects on adipose tissue	2083
156	01 39	A. quadrimaculatus, in Michigan 378
Diglochis sylvicola, descriptions of 156 Diglochis terteriani	A. togoi, effects on adipose tissue of	Culex pipiens, development of 378
sp. nov., description of 156	Dipetalonema perstans, in, man, in Gabon	Culiseta inornata, in California 2083 dog, in California 2083
in USSR 156	861	Dirofilaria repens, in, Aedes aegypti,
parasitising, Tabanus bromius, in Armenia	Dipetalonema viteae	utilisation of host constituents by 101
156	in	Dirofilaria ursi
Dimecron (see Phosphamidon)	golden hamster, effects of host gender	in
1,4:5,8-Dimethanonaphthalene-2,3-diol,	on 697	Simulium venustum, development of
5,6,7,8,9,9-hexachloro-1,2,3,4,4a,5,8,8a-	Ornithodoros tartakovskyi, transmission	1296
octahydro-, in Blaberus discoidalis, dieldrin metabolite 332	of 697 Diphtheroid, in, Blatta orientalis, in UK	Ursus americanus 1296 dirus, Anopheles
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-	3157	discoidalis, Blaberus
hexachloro-1,4,4a,5,8,8a-hexahydro-	Diplocentridae	discolor, Stomorhina
$(1\alpha,4\alpha,4a\beta,5\alpha,8\alpha,8a\beta)$ - (see Aldrin)	biology of 745	discum, Leptotrombidium
$(1\alpha,4\alpha,4a\beta,5\beta,8\beta,8a\beta)$ - (see Isodrin)	in Cuba 745	dispar, Lymantria
2,7:3,6-Dimethanonaphth[2,3-b]oxirene,	Diplogasteridae, in, insects, book 1134	dissidens, Apallates (Hippelates)
3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-	Diploptera punctata, abdominal exocrine	dissidens, Hippelates (see Apallates
octahydro-	glands in 337	dissidens)
$(1a\alpha,2\beta,2a\alpha,3\beta,6\beta,6a\alpha,7\beta,7a\alpha)$ - (see Dieldrin)	Dipodillus simoni, Leptotrombidium spatzi on, in Tunisia 2490	dissimilis, Amalaraeus penicilliger dissimilis, Malaraeus penicilliger (see
$(1a\alpha,2\beta,2a\beta,3\alpha,6\alpha,6a\beta,7\beta,7a\alpha)$ - (see	Dipodomys ordii, mites on, in Oregon 2249	Amalaraeus penicilliger dissimilis)
Endrin)	Dipophene (see Chloromethiuron)	distinguenda, Hybomitra
Dimethoate (O,O-dimethyl S-[2-	Dips	District of Columbia, Culiseta annulata in
(methylamino)-2-oxoethyl]	dioxathion in, determination of 1010	3248
phosphorodithioate)	quintiofos in, determination of 1010	Disulfide, dimethyl, Cochliomyia
against 703	Diptera	hominivorax responses to 1896
Amblyomma spp. 703 Musca domestica 1893	blood-feeding in, evolution of 1170	Disulfiram (tetraethylthioperoxydicarbonic diamide ([(Et ₂ N)C(S)] ₂ S ₂))
Trombiculidae, on Rattus 1412	blood-sucking, in Ukraine 1062	against, Sarcoptes scabiei, on man 1673
in Bacillus thuringiensis, not toxic 312	chromosomes in 1995	with DDT, and phenylmethyl benzoate,
in rodent baits 1412	control of, water management for 532	against, Sarcoptes scabiei, on man
on building materials, persistence of 203	diapause in, review 1191	292, 1673
resistance to, in	helminths in, in Uzbekistan 316	with phenylmethyl benzoate, against,
Culex pipiens 2604 Musca domestica, in German	host skin penetration by 2327 in Finland 2344	Sarcoptes scablei, on man 1673 Ditches
Democratic Republic 3350	in Nearctic region, book 2587	mosquito control in
WHO data sheet on 3119	in West Malaysia 2803	Bacillus thuringiensis for 1798
Dimethoxon (see Omethoate)	in Agelaius phoeniceus nests, in Manitoba	insecticide drips for 1709
Dimethyl sulfoxide (sulfinylbis[methane])	864	1,2,4-Dithiazol-1-ium, 3,5-
in Rhipicephalus appendiculatus, toxicity	in carrion, breeding seasons of 3364	bis(dimethylamino)-, chloride, in
of 2225	in cattle-dung fertilizer, in Irish Republic	Periplaneta americana, effects on ovaries of 1165
dimidiatus, Chrysops Dimilin (see Diflubenzuron)	324 in cattle farms, in Yugoslavia 901	dives, Mansonia
Diminazene aceturate, in cattle, effects on	in livestock farms, movement to towns of	Dixella, in aquatic habitats, effects of
infectivity of Babesia to ticks of 1069	900	pirimiphos-methyl on 2942
diminuata, Orthohalarachne	in pheasant carcasses, in UK 2183	Dixidae
diniana, Zeiraphera	in poultry housing, in England 1717	Bacillus thuringiensis in, pathogenicity of
Dinoflagellata, in ponds, effects of insect	in rice-fields, in California 2093	2086
growth regulators on 3013	in zoological gardens	parasitised by, Arrenurus spp., in West
Dinopsyllus apistus, in Burundi 49	in India 3189	Germany 468
Dinopsyllus longifrons, in Burundi 49 Dinopsyllus lypusus	in Java 3189 in Tanzania 3189	Diximermis peterseni in
in Tanzania 2030	olfactory system in, evolution of 3132	Anopheles earlei, in Quebec 1197
on rodents, in Tanzania 2030	on birds, in Kirghizia 1033	A. punctipennis, in Quebec 1197
Dinoseb (2-(1-methylpropyl)-4,6-	on cattle, in German Federal Republic	A. walkeri, in Quebec 1197
dinitrophenol)	465	Dixol (see Trichlorphon)
in Culex molestus, toxicity of 3289	on man, hypersensitivity to 319	Djibouti, Ixodoidea in 951
3,5-Dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile,	overwintering of, in birds' nests 2005	DMSO (see Dimethyl sulfoxide)
7-(2-chlorophenyl)-4-ethoxy-, 4-sulfide (see Chlorphoxim)	parasitised by, <i>Dirhinus</i> spp., in Indian subregion 3056	DNAase (see Nuclease, deoxyribo-)
(NO OHIOI PHOMILI)	PROTOBIOIT DODO	

494 DNOC (2-methyl-4,6-dinitrophenol) for bush clearance in Glossina control 1331 in vertebrates, residues of 1331 Dobsonia moluccensis, Whartonia kulumadouensis on, in Irian Jaya 2235 Dobsonia pannietensis, Whartonia kulumadouensis on, in Papua New Guinea 2235 dobyi, Culicoides 4,7,10,13,16,19-Docosahexaenoic acid, in Culex pipiens diet, permitting flight 3214 2,4-Dodecadienethioic acid, 11-methoxy-3,7,11-trimethyl-, S-ethyl ester, (2E,4E)-(see Triprene) 2,4-Dodecadienoic acid, 11-methoxy-3,7,11trimethyl-, 1-methylethyl ester, (2E,4E)-(see Methoprene) 2,4-Dodecadienoic acid, 3,7,11-trimethylethyl ester, (2E,4E)- (see Hydroprene) 2-propynyl ester, (2E,4E)- (see Kinoprene) 1-Dodecanesulfonic acid sodium salt. against Anopheles atroparvus 75 Culex modestus Dog (Canis familiaris) Anopheles freeborni on, in California 2083
Centruroides sculpturatus venom in,
3114 2083 platelet aggregation caused by 3114 Cheyletiella spp. on, in Connecticut 1965 C. yasguri on in Italy 12 transfer to man of 1414 Cochliomyia hominivorax on, in Netherlands Antilles 457 Ctenocephalides canis on, in England 2872 C. felis on hypersensitivity to 363 in England 2872 Culex pipiens on, in Honshu 2908 Demodex spp. on, effects of 2229 D. canis on effects of 2228, 3418 in Indonesia 2806 in Queensland 2766 D. folliculorum on, in France 1665 Dermacentor variabilis on, in New York Dirofilaria immitis in in California 2083 mosquito transmission of 600 ectoparasites of, transfer to man of 1417 Haemaphysalis punctata on, in Wales human hypersensitivity to 1654 Ixodidae on, in Connecticut 1398 Leishmania spp. in, in Italy 764 L. donovani in in France 132, 134 phlebotomine transmission of 133 Orchopeas howardii on, in England 2872 pest control on, flea collars for 2028 Phthiraptera on, in Afrotropical region, book 1177
Rhipicephalus sanguineus on imported into New Zealand in Denmark 3400 in French Polynesia 1943 in German Federal Republic 965 in Italy 3063 in Jamaica 2463 in Karnataka 2470 in Tasmania 533 Rickettsia montana in, in Massachusetts Sarcoptes scabiei on, in Indonesia Simulium nigrum on, in USSR 2973 Siphonaptera on, in Alaska 2584 spotted-fever rickettsiae in, in New York Tabanidae on, in Connecticut 1921, 2443 tick control on, acaricides for 1459

Trypanosoma cruzi in, in Chile 3176

T. evansi in 184 Dog biscuits diet component for Aedes detritus 368

Anopheles annularis 2059

Dog dung Diptera in, in England 220 Sarcocystis spp. in, fly transmission of 220 dohanyi, Blankaartia Dolichopodidae, pupae of 1348 **Dolichovespula** check-list of 484 common names of 2457 Dolichovespula arenaria on man hypersensitivity to 1930 diagnosis of 1389, 2455 venom of 1930, 2455, 3381 Dolichovespula maculata on man hypersensitivity to 1930 diagnosis of 1389, 2455 venom of 1930, 2455, 3381 Domestic animals omestic animals
Acari on, in Afghanistan 695
arthropod pests of, in Tasmania 53
Demodex spp. on, in Zambia 1333
ectoparasites of
in Indonesia 2802
in Philippines 2813
in West Malaysia 2803
Lucalidae 1 Ixodidae on in Connecticut 1398 in Turkmenia 1636 1398 Lutzomyia trinidadensis on, in Venezuela 632 pesticides in, non-target effects of Sarcoptes spp. on, in Zambia 1333 domestica, Musca domesticus, Acheta (Gryllus) domesticus, Glycyphagus domesticus, Gryllus (see Acheta domesticus) domesticus, Rhodnius dominica, Rhyzopertha Dominican Republic Cubanochirus spp. in, on Solenodon 1952 eastern equine encephalitis in 3149 donaldi, Anopheles donarthuri, Ixodes dongluoensis, Leptotrombidium Donkey (Equus asinus) Amblyomma cajennense on, in Jamaica 2463 Anocentor nitens on, in Jamaica 2463 Hyalomma anatolicum on, in Egypt 3394 Oestroidea on, book 2691 Phlebotomus chinensis on, in China 868 Phthiraptera on, in Afrotropical region, book 1177 Rhipicephalus sanguineus on, in Egypt 3394 DOPA decarboxylase (see Decarboxylase, aromatic amino acid) Dopamine (4-(2-aminoethyl)-1,2benzenediol) in Amblyomma hebraeum, not inhibiting
ATPase 2740
in Nauphoeta cinerea, effects on salivary
glands of 333

Dopamine, N-acetyl- (see Acetamide, N-[2-(3,4-dihydroxyphenyl]ethyl]-) Dopamine, 6-hydroxy- (see 1,2,4-Benzenetriol, 5-(2-aminoethyl)-) Doratomyces, in, Culicidae, in Ukraine Doratopsylla birulai (see Corrodopsylla birulai) Doratopsylla dasycnema, in Hungary 2334 dorsalis, Aedes dorsalis, Lucilia cuprina dorsomaculatus, Tityus trivittatus Douglas virus, in, cattle, in Queensland Dracaena, Aedes simpsoni in axils of, in Nigeria 591 Dracunculus medinensis in, man, in Nigeria 637 vectors of 637 Drainage mosquito breeding sites destroyed by 2128 of salt marshes, for mosquito control 2381, 3279 role in fly control of 532 role in malaria control of 2372, 2380

Drainage ditches Culicidae in, in Missouri Simuliidae in, in Poland 2391 Culex pipiens in, in France 3297 C. quinquefasciatus in, in Tamil Nadu 2600 Dredgings, Culicidae in, in South Carolina 2910 dremomydis, Enderleinellus Dremomys pernyi, Enderleinellus dremomydis on, in China 558 Drepanocerus kazirangensis sp. nov., description of 2724 in India 2724 in Asian buffalo dung, in Assam 2724 Drepanocerus runicus in India 2724 in dung, in India 2724 Drepanocerus striatulus in India 2724 in dung, in India 2' dromedarii, Hyalomma Dromedary (see Camel) Drosophila chromosomes in 1995 mating success in, geographic variation in components of 3019 components of 3019
sampling of 531
sigma virus in 525

Drosophila funebris, control of 199

Drosophila melanogaster
chromosomes in, maps of 2202
control of, insecticides for 2506 enzymes in 1761 eyes in 2714 retinal pigments in 2195 sigma virus in, behaviour of 2134 Drosophila pseudoobscura, flight activity in, rhythm of 406 drosophilae, Spalangia Drought, Glossina as affected by 1300, 1301 Drying agents, against, Lucilia cuprina, on sheep 2174
Dryomyza anilis descriptions of 2183 in UK 2183 in pheasant carcasses, in UK 2183 dubia, Sergentomyia Dubininetta, taxonomy of, raised to generic rank 2770 Dubininetta talpae, taxonomy of, transferred from Lynxacarus 2770 dubius, Culicoides duboscqi, Phlebotomus

Duck (see also named species) Japanese encephalitis, virus in, in India 573 dufouri, Dasyhelea Dugbe virus Amblyomma variegatum, in Kenya 1641 Rhipicephalus spp., in Kenya 1641 ectors of 1826 vectors of Dugesia dorotocephala, WHO data sheet on 1830 Duiker, grey (see Sylvicapra grimmia) Dung Aphodius spp. in, seasonal abundance of 228 biological control of 2831 Coleoptera in, traps for 3380 control of, biological 18, 19 Hydrophilidae in, seasonal abundance of 228 phoretic mites in, traps for 3380 Scarabaeidae in 3054 exploitation of 1392 in France 919 in German Federal Republic 3055 Scathophaga spp. in, in Hokkaido 3023 Sphaeridium spp. in 1928 Sphaeridium spp. in 1928
Sphaeroceridae in, in USSR 675
utilisation by Scarabaeidae of 2208
Dung beetle (see Scarabaeidae)
Dunnart, white-footed (see Sminthopsis leucopus)
Dunnock (see Prunella modularis) duplex, Simulium johannseni Duplicidentata, Siphonaptera on, in Mongolia 2870

dureni, Sergentomyia	Dytiscidae, in ponds, effects of aquatic	E.C. 6.3.3.2 (see Synthetase,
durhami, Armigeres	plants on 1243	methenyltetrahydrofolate)
Dursban (see Chlorpyrifos)	dzhafarovi, Culicoides	a-Ecdysone (see Cholest-7-en-6-one,
Dwellings Aedes aegypti in, in West Malaysia 1800	Eadiea, key 2236 Eadiea brevihamata	2,3,14,22,25-pentahydroxy-, $(2\beta,3\beta,5\beta,22R)$ -)
Alphitobius diaperinus in, in England	on Talpa europaea 2236	α-Ecdysone, 20-hydroxy- (see Cholest-7-en-
486	taxonomy of, characters distinguishing E.	6-one, 2,3,14,20,22,25-hexahydroxy-,
Anopheles arabiensis in, in Nigeria 766,	neurotrichus and 2236	$(2\beta,3\beta,5\beta,22R)$ -)
829	Eadiea neurotrichus	β-Ecdysone (see Cholest-7-en-6-one,
A. balabacensis in	sp. nov., description of 2236 in Canada 2236	$2,3,14,20,22,25$ -hexahydroxy-, $(2\beta,3\beta,5\beta,22R)$ -)
in Arunachal Pradesh 624 in Sabah 2055	in USA 2236	Ecdysones (see Moulting hormones)
A. cruzii in, in Brazil 1203	on Neurotrichus gibbsii	Ecdysterone (see Cholest-7-en-6-one,
A. culicifacies in	in British Columbia 2236	2,3,14,20,22,25-hexahydroxy-,
in Andhra Pradesh 607	in Washington State 2236 Eagle's minimum essential medium, culture-	(2\beta,3\beta,5\beta,22R)-) echidnina, Laelaps
in Rajasthan 609	medium component for, Trypanosoma	Echidnophaga gallinacea
A. donaldi in, in West Malaysia 1799 A. gambiae in, in Nigeria 766, 829	congolense 2162	in Tanzania 2030
A. letifer in, in Sarawak 598	earlei, Anopheles	on rodents, in Tanzania 2030
A. sacharovi in, in Azerbaijan 850	Earthworm, for converting animal wastes into feedstuffs 2710	Echidnophaga myrmecobii in Australia 46
A. stephensi in, in Iran 2912	East Coast fever (see also Theileria parva)	myxoma virus in, transmission of 46
arthropod pests in	laboratory model of 698	on rabbit, in New South Wales 46
book 322	Eastern equine encephalitis (see	Echidnophaga tiscadaea
in Tasmania 533, 1720 in UK 331	Encephalitis, eastern equine) E.C. 1.1.1.49 (see Dehydrogenase, glucose 6-	descriptions of 2870 in Mongolia 2870
Blatta orientalis in, in UK 3157	phosphate)	Echinochloa crus-galli, Aedes vexans
Blattaria in, in UK 1141	E.C. 1.2.1.37 (see Dehydrogenase, xanthine)	oviposition sites associated with 2612
Blattella germanica in, in California 796	E.C. 1.3.99.1 (see Dehydrogenase, succinate)	Echinonema cinctum
Carcinops pumilio in, in England 486 Centruroides sculpturatus in, in California	E.C. 1.4.3.3 (see Oxidase, D-amino acid) E.C. 1.5.1.2 (see Reductase, pyrroline-5-	descriptions of 692 in
2495	carboxylate)	Isoodon macrourus 692
cockroach control in	E.C. 1.6.6.8 (see Reductase, guanylate)	Locusta migratoria, development of
evaluating of 2841	E.C. 1.7.3.3 (see Oxidase, urate)	692
insecticide formulations for 1733 insecticides for 796	E.C. 1.9.3.1 (see Oxidase, cytochrome) E.C. 1.10.3.1 (see Oxygenase, monophenol	Echinops telfairi, Haemaphysalis simplicima on, in Malagasy Republic 3060
Crataerina pallida in, in Scotland 2696	mono-)	Echinosorella, gen. nov., description of
Culex spp. in, in Bangladesh 1562	E.C. 1.10.3.2 (see Oxygenase, monophenol	2770
C. quinquefasciatus in, in Brazil 2383	mono-)	Echinosorella echinosorex, taxonomy of, transferred from Lynxacarus 2770
Dermatophagoides spp. in, in Uttar Pradesh 2773	E.C. 1.11.1.6 (see Catalase) E.C. 1.14.18.1 (see Oxygenase, monophenol	echinosorex, Echinosorella (Lynxacarus)
Dermestes maculatus in, in England 486	mono-)	echinosorex, Lynxacarus (see Echinosorella
Haemagogus spp. in, in Brazil 2627	E.C. 2.4.1.16 (see Acetylglucosaminyltransf-	echinosorex)
house-dust mites in biotopes of 517	erase, chitin-uridine diphosphate) E.C. 2.4.2.7 (see Phosphoribosyltransferase,	Ecklonia maxima, Fucellia capensis on, development of 2439
effects of humidity on 280	adenine)	Ecology, book 3146
Hystrichopsyllidae in, in Morocco 3183	E.C. 2.4.2.8 (see Phosphoribosyltransferase,	Ectiban (see Permethrin)
insect pests in, in Canada 782	hypoxanthine)	Ecuador
Lutzomyia trinidadensis in, in Venezuela 632	E.C. 2.6.1.1 (see Aminotransferase, aspartate)	Aedeomyia squamipennis in, viruses in 2629
Mansonia annulifera in, in Kerala 2057	E.C. 2.6.1.2 (see Aminotransferase, alanine)	Culex adamesi in 584
M. uniformis in, in Kerala 2057	E.C. 2.7.1.1 (see Kinase (phosphorylating),	ecuadoriensis, Rhodnius
mites in, in Argentina 984 mosquito control in, insecticides for 1245	hexo-) E.C. 2.7.1.73 (see Kinase (phosphorylating),	Eczema, in man, caused by Dermanyssus americanus 1670
Musca spp. in, in Assam 1595	inosine)	Edema, in man, caused by Macrothylacia
M. domestica in, in Orissa 2452	E.C. 2.7.1.82 (see Kinase (phosphorylating),	rubi 690
Oeciacus vicarius in, in USA 44	ethanolamine)	Edentata, Phlebotominae on, in Panama
Ornithonyssus sylviarum in, in Netherlands 1135	E.C. 2.7.5.1 (see Phosphomutase, glucose) E.C. 3.1.1.2 (see Esterase, aryl)	2150 edentula, Hoplopleura
Panstrongylus megistus in, in Brazil 812	E.C. 3.1.1.4 (see Phospholipase A ₂)	Edge Hill virus, in, Culicidae, in New South
Parcoblatta spp. in, in Netherlands 1135	E.C. 3.1.1.7 (see Esterase, acetyl choline)	Wales 2033
Periplaneta americana in, in Philippines	E.C. 3.1.3.2 (see Phosphatase, acid)	EF-3734 (see Dieldrin) EF-4220 (see Dieldrin)
pest control in 331, 1145	E.C. 3.1.3.5 (see Nucleotidase, 5'-) E.C. 3.1.3.19 (see Phosphatase, glycerol 2-)	Eftolon (see Sulfaphenazole)
book 7	E.C. 3.2.1.4 (see Cellulase)	Egg yolk, diet component for, Forcipomyia
equipment for 561	E.C. 3.2.1.17 (see Lysozyme)	taiwana 418 Egretta intermedia, Blankaartia dohanyi on,
Phlebotominae in, in Bihar 1262 Phlebotomus argentipes in, in Bihar	E.C. 3.2.1.20 (see Glucosidase, α -) E.C. 3.2.1.21 (see Glucosidase, β -)	in West Irian 981
1260	E.C. 3.2.1.22 (see Galactosidase, α -)	Egypt
P. major in, in Sinkiang-Uighur 421	E.C. 3.2.1.23 (see Galactosidase, β -)	Argas persicus in, in fowl housing 718
P. papatasi in, in Gujarat 2662	E.C. 3.2.1.24 (see Mannosidase, α -) E.C. 3.2.1.26 (see Fructofuranosidase, β -)	Boophilus annulatus in 2475 Culex spp. in 2646
Pulex irritans in, in Burundi 49 Rhipicephalus sanguineus in, in German	E.C. 3.2.1.28 (see Trebalase)	C. pipiens in
Federal Republic 965	E.C. 3.2.1.30 (see Acetylglucosaminidase, β-)	nematodes in 3293
Rhodnius pallescens in, in Panama 2576	F.C. 2.2.1.21 (Classical R.)	viruses in 2135
R. prolixus in, in Venezuela 561 Triatoma barberi in, in Mexico 352	E.C. 3.2.1.31 (see Glucuronidase, β-) E.C. 3.4.14.1 (see Cathepsin C)	Ixodidae in, on livestock 2752, 3394 Musca domestica in, in cattle farms 477
T. infestans in, in Brazil 812, 2293, 2294	E.C. 3.4.21.1 (see Chymotrypsin)	M. sorbens in, in cattle farms 477
T. melanocephala in, in Brazil 2296	E.C. 3.4.21.4 (see Trypsin)	Ornithodoros erraticus in, viruses in
T. sordida in, in Brazil 812 Triatominae in	E.C. 3.4.21.8 (see Kallikrein) E.C. 3.4.24.3 (see Collagenase)	1950 Pediculus humanus in, on man 2292
control of 3173	E.C. 3.5.3.1 (see Arginase)	Rhipicephalus guilhoni in, on goat 2756
in Brazil 807, 1137, 1744, 2299	E.C. 3.5.4.9 (see Hydrolase,	R. turanicus in, on goat 2756
in Chile 3176	methenyltetrahydrofolate cyclo-)	Sarcoptes scabiei in, on man 2776
in Paraguay 3174 Vespa crabro in, in Maryland 1631	E.C. 3.6.1.3 (see Phosphatase, adenosine tri-)	Scarabaeidae in, nematodes in 3374 Ehrlichia phagocytophila
dycei, Myianoetus	E.C. 3.6.1.5 (see Apyrase)	in
Dyes, in Musca domestica, toxicity of 3355	E.C. 4.1.1.26 (see Decarboxylase, aromatic	cattle, in Northern Ireland 946, 2212
Dynamopidae, in Saudi Arabia 2529 Dysdercus koenigii, sterilisation of,	amino acid) E.C. 4.1.1.28 (see Decarboxylase, aromatic	Ixodes ricinus, transmission of 946 Eichhornia, Mansonia spp. associated with,
chemosterilants for 1755	amino acid)	in Kerala 2057
Dyspnea, in canary, caused by Sternostoma	E.C. 5.3.1.9 (see Isomerase, glucose	5,8,11,14,17-Eicosapentaenoic acid, in Culex
tracheacolum 2759	phosphate)	pipiens diet, permitting flight 3214

,8,11,14-Eicosatetraenoic acid	Encephalitis, Japanese contd. virus contd.	Encephalitis, Venezuelan equine, virus, in, Culicidae, in Peru 1828
in Culex pipiens diet, permitting flight	in contd.	Encephalitis, western equine
3214	Culex contd.	virus
in Culiseta incidens diet, requirement	C. tritaeniorhynchus	in
for 1238	in Honshu 3286	Aedes melanimon, in California
in Culiseta inornata diet, requirement	in Philippines 83, 3221	2081
for 1238 ,11,14-Eicosatrienoic acid, in Culex pipiens	in Taiwan 2032 infectivity of, strain differences in	A. pionips, in Manitoba 1809 A. vexans, in Manitoba 1809
diet, permitting flight 3214	2951	Anopheles earlei, in Manitoba 1809
Cl Salvador	isolating of 2950	Coquillettidia perturbans, in
Anopheles albimanus in 377, 846, 1816,	transovarial transmission of 847	Manitoba 1809
2127, 3243	C. vishnui	Culex pipiens, in California 2081 C. tarsalis
A. pseudopunctipennis in 843, 3237	in Philippines 83 in Taiwan 2032	in California 2081, 3241
malaria in 2127 L-494 (see Benzamide, N-[[[5-(4-	in West Bengal 2620	in Manitoba 1809
bromophenyl)-6-methylpyrazinyl amino]-	C. whitmorei, in Andhra Pradesh	transmission of, barriers to 2626
carbonyl]-2,6-dichloro-)	3276	Culiseta inornata, in Manitoba 1809
Claphrus cupreus	Culicidae, in China 1827 duck, in India 573	C. melanura, in New York State 3246
in France 3299	man	fowl, in California 2080, 2081
preying on, Culicoides riethi 3299	in China 1827	horse, in Utah 381
Electric conductivity, in Simulium breeding	in South Korea 2122	man, in California 2081
water 2666 Electrophoresis, for studying Culicidae 70	pig, in China 1827 Toxorhynchites amboinensis,	Enderleinellus corrugatus in China 558
legans, Laciaps	infectivity of 2883	on Callosciurus erythraeus, in China 558
Elephant, African (see Loxodonta africana)	isolation of, in mosquito cell lines	Enderleinellus dremomydis
Clephant (African) dung	2950	in China 558
Caccobius krikkeni in, in Kenya 917	vectors of, ecology of 3275 Encephalitis, Murray Valley	on Dremomys pernyi, in China 558 Enderleinellus longiceps
Onthophagus obliquus in, in Kenya 917 Elephantulus rozeti, Leptotrombidium	surveillance for 1772	in USA 1189
rheinwaldi on, in Morocco 1977	virus, in, Aedes aegypti, transovarial	on Sciurus carolinensis, in Tennessee
Elgiva sundewalli	transmission of 1840	1189
in USA 3373	Encephalitis, Russian spring-summer, virus,	seasonal abundance of 1189
parasitised by, <i>Trichogramma</i> spp., in New York State 3373	tick transmission of 3137 Encephalitis, Saint Louis	endius, Spalangia Endosulfan (6,7,8,9,10,10-hexachloro-
Elliptorhina brunneri	virus	1,5,5a,6,9,9a-hexahydro-6,9-methano-
labium in, sensilla on 783	in	2,4,3-benzodioxathiepin 3-oxide)
maxillae in, sensilla on 783	Aedes spp., in Brazil 2898	against
Im (see <i>Ulmus</i>) Illodea canadensis, Culicidae and predators	A. albopictus, transovarial transmission of 1784	Glossina spp. 1329 G. morsitans 1089, 1327, 1330
as affected by 1243	A. epactius, transovarial transmission	G. pallidipes 1089
longatus, Cubanochirus	of 1784	G. palpalis 1326, 1699, 1884
Isan (see Phenthoate)	birds, in Brazil 2898	G. tachinoides 1327, 2401, 2982
Emberiza elegans, Haemaphysalis japonica on, in Maritime Territory 2734	Culex spp., in Brazil 2898 C. nigripalpus, in Jamaica 845	in Acacia woodland, effects on birds of 872
Emberiza spodocephala, Haemaphysalis	C. pipiens, transmission of, strain	in aerial sprays, deposition of 2401
japonica on, in Maritime Territory	differences in 396	in fish, toxicity of 1327, 3005
2734	C. quinquefasciatus, transmission of,	in Gambusia affinis, toxicity of 2794
mergens, Amanella (see Cydistomyia	strain differences in 396	in Glossina morsitans, effects on lipids of 2680
emergens) mergens, Cydistomyia (Amanella)	C. tarsalis, in California 2081, 3241 fowl, in California 2081	in river deltas, non-target effects of 3005
impididae, pupae of 1348	mon	in swamps, non-target effects of 2163
Impidomermis riouxi	in California 2081	non-target effects of 436
sp. nov., description of 58	in Jamaica 845	persistence of 1326, 1329, 1330
in, Aedes detritus, in France 58 Encephalitis, in South-East Asia 2822	Mansonia pseudotitillans, in Brazil 2898	Endrin $((1a\alpha, 2\beta, 2a\beta, 3\alpha, 6\alpha, 6a\beta, 7\beta, 7a\alpha) - 3,4,5,6,9,9$ -hexachloro- $1a,2,2a,3,6,6a,7,7a$ -
ncephalitis, California	Mimus polyglottos, in Jamaica 845	octahydro-2,7:3,6-dimethanonaphth[2,3-
virus	Passer domesticus, in Indiana 1791	b]oxirene)
in	Sabethes belisarioi, in Brazil 2898	against 2487
Aedes dorsalis, effects on CO ₂ susceptibility of 615	Toxorhynchites amboinensis, infectivity of 2883	Psoroptes cuniculi 2487 P. ovis 2487
A. melanimon	Encephalitis, tick-borne	ensifera, Radfordia
effects on CO2 susceptibility of	review 1946	ENT-numbers (see AI3-numbers)
615	virus	Enterobacter aerogenes, in, Periplaneta
transovarial transmission of 2082 A. triseriatus, effects on CO ₂	control of immunization against vectors for	americana, in Philippines 1727 Entobacterin-3 (see Bacillus thuringiensis
susceptibility of 615	3390	var. galleriae)
Culex tarsalis, effects on CO2	vector control for 716	Entomology
susceptibility of 615	hosts of 1946	in Australia, bibliography 2518, 2519,
in Dominican Republic 3149	of Clethrionomys glareolus, strains of	2520, 2521, 2522, 2523 in Canada, book 2539
in New York State 1528, 1529	3069	Entomology, applied, role of taxonomy in
virus	Culicidae, transmission of 3215	2268
in	Dermacentor spp., transmission of	Entomology, medical
Culiseta melanura, in New York State 3246	2733	book 322, 539 index-catalogue of 1120, 1121
equines, in Jamaica 845	D. andersoni, infectivity of, effects of immunization on 3390	Entomology, veterinary
man, in Jamaica 845	D. marginatus, in Kirgizia 1688	book 1152
ncephalitis, Japanese	Haemaphysalis punctata, in Kirgizia	index-catalogue of 1120, 1121
in Bangladesh 1562, 2371 virus	1688	entomophagus, Thyreophagus
control of, vector control for 1827	Ixodes persulcatus in Kirgizia 1688	Entomophthora in
in	infectivity of 2732	Culicidae, in Ukraine 1025
Anopheles annularis, in Philippines	transmission of 716, 2733	Musca autumnalis 454
3221	I. ricinus	Entomophthora apiculata
A. barbirostris, in West Bengal 2620 A. hyrcanus, in West Bengal 2620	strains of 3069 transmission of 233, 2233, 2733	Chrysomya chloropyga, in Nigeria 202
Ardeidae, in India 573	Ixodidae, transmission of 3413	Hemipyrellia fernandica, in Nigeria
crow, in India 573	Ixodoidea, transmission of 924	202
Culex bitaeniorhynchus, in	man, in West Germany 233	Musca domestica, in Nigeria 202
Philippines 3221 C. quinquefasciatus, in Taiwan 2032	tick transmission of 3137 vectors of 1946	Entomophthora aquatica, taxonomy of, holotype for 1563
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

Subject Index Entomophthora conglomerata, in, Culicidae, in USSR 1019 Entomophthora culicis, in, Culicidae, in Ukraine 1025 Entomophthora muscae, in, Musca domestica, infectivity of, effects of humidity on 3031 Entomophthorales, in, Phlebotomus sergenti,

in Algeria 2660 Entomostraca, preyed on by, Procladius spp., in Poland 1917

Enzymes, isoenzymes, use in medical

entomology of 53 Eomenacanthus stramineus (see Menacanthus stramineus)

Eothenomys, Siphonaptera on, in Yunnan 568

Eothenomys eleusis, Hystrichopsylla rotundisinuata on, in Yunnan 2580 Eothenomys melanogaster

Gahrliepia lamella on, in Anhui 294 G. latiscutata on, in China 3098 Eothenomys miletus, Hystrichopsylla weida

epactius, Aedes
epanastasis, Culex
Eperythrozoon ovis, in, Culex annulirostris,
transmission of 2129

Ephemeral fever, virus, in, livestock, in Australia 2652

in nests of, in Yunnan 569

Ephemerella, in rivers, as indicators of effects of insecticides 1292 **Ephemeroptera**

fenethacarb in, toxicity of 1530 in Culicoides occidentalis mating swarms, in California 2385

in fresh water, effects of pyrethroids on 2157 in rivers

as indicators of effects of insecticides

effects of methoxychlor on 1281 effects of methoxychior on 1281 pyrethroids in, toxicity of 78, 876

Ephestia kuehniella, eyes in, isolating of pigment granules from 2448

Ephydra, predators of, detecting of 1483

Ephydridae, Culicinomyces clavosporus in, pathogenicity of 1829

Epicauta lemniscata in USA 230

on horse, diagnosis of poisoning by 230 on sheep, diagnosis of poisoning by 230 Epilachna varivestis, control of, insecticides

for 2264 Epitedia faceta

in USA 1514, 2339

in Glaucomys volans nests, in USA 2339 on Glaucomys volans, avoidance of competition by 1514 seasonal abundance of 2339

Epizootic bovine abortion, virus, research methods with 1471 EPN (O-ethyl O-(4-nitrophenyl)

phenylphosphonothioate)

in Musca domestica, metabolism of 206 resistance to, in, Musca domestica, metabolism of 206

EPNO (see Phosphonic acid, phenyl-, ethyl
4-nitrophenyl ester)

Epoxidase, aldrin

in Calliphoridae, induction of 2712 in Musca domestica, inhibition by

tyrosinase of 1371

Eptesicus fuscus, Trypanosoma hedricki in, in Ontario 2863

equalis, Tabanus
equina, Hippobosca
equina, Wilhelmia (see Simulium equinum)
equinum, Simulium (Wilhelmia)

Equus asinus (see Donkey) Equus caballus (see Horse)
Equus caballus × E. asinus (see Mule)

erberi, Hybomitra

Erethizon dorsatum

Malassezia pachydermatis in, in New York State 2240

Sarcoptes scabiei on, in New York State 2240 Eretmapodites, in tree holes, in Kenya

Eretmapodites quinquevittatus, Rift Valley fever, virus in, transmission of 2139

Ergometrine, in Periplaneta americana, effects on accessory reproductive glands of 339

eridania, Spodoptera erikssoni, Strobiloestrus

erimoense, Eusimulium (see Simulium erimoense)

erimoense, Simulium (Eusimulium) erinacei, Caparinia

Erinaceus albiventris, Astigmata on, in Kenya 2239

Eristalis aeneus

in USA 1814 in animal waste lagoons, effects of organic pollution on 1814

Erithacus rubecula, famphur in, toxicity of

erraticus, Ornithodoros Errece, mounting medium for microarthropods 1149

eruditus, Cheyletus Erythema

Culicidae and 3215 in man, caused by insect stings 1630 in rabbit, caused by *Cheyletiella parasitivorax* 2774 tick transmission of 3137

erythrocephala, Boophthora (see Simulium erythrocephalum) erythrocephala, Calliphora (see C. vicina)

erythrocephalum, Simulium (Boophthora) Erythrosin B

against, Musca domestica, in fowl dung 191

in fowl dung, not affecting Hermetia illucens 191

erythrothorax, Culex Esbiol (see Allethrin, $[1R-[1\alpha(S^*),3\beta]]$ -) Escherichia coli

amino acids in, utilisation by Aedes aegypti of 2047

Blatta orientalis, in UK 3157 Diptera, in Brazil 479 man, role in colitis of 980 Rhyzopertha dominica 1633

Xenopsylla cheopis, parenteral infection with 1515
Eserine, in Triatoma infestans, resistance of embryonic esterases to 1745

Esterase

in Aedes aegypti, genetics of 3291 in Anopheles, polymorphism of 1768 in Anopheles stephensi salivary glands 74

in Babesia bigemina 264 in Boophilus microplus, cattle antienzymes to 2217

in Culex pipiens, as indicator of insecticide resistance 2105

in Culex quinquefasciatus genetics of 1221, 3281 role in insecticide resistance of 2366 role in organophosphate resistance of

2877 role in temephos resistance of 2104

in Culex tarsalis, isoelectric focusing of 122

in Culicidae, determination of 3281 pyrethroid degradation by 1445 isoenzymes, in *Hyalomma*, use in taxonomy of 934

Esterase, acetyl

in Anopheles stephensi salivary glands
74

in Triatoma infestans 3169 in Triatoma infestans embryo 1745

Esterase, acetyl choline in Aedes aegypti cell lines, ecdysterone stimulating activity of 3262

in insects

automated assay for 1448 insecticide inhibition of 748

in Lucilia sericata, carbamate inhibition of 2507

in Megoura viciae, carbamate inhibition of 2507

in Periplaneta americana central nervous system, diel changes in activity of 799 in Periplaneta americana nervous system,

effects of X-irradiation on 1169 in rat, insecticide inhibition of 748

Esterase, acetyl choline contd.

in Triatoma infestans eggs, activity pattern of 35

in Triatoma infestans embryo, parathion inhibition of 1745 organophosphate inhibition of 3135

isoenzymes, in Culex tarsalis 3258 Esterase, aryl

in Anopheles stephensi salivary glands

in Culex tarsalis, properties of 2131 in Triatoma infestans, parathion degradation by 3169 in Triatoma infestans embryo 1745

Esterase, carboxyl

in Anopheles stephensi salivary glands

in Musca domestica, role in insecticide resistance of 1606

Triatoma infestans 3169

in Triatoma infestans embryo, parathion inhibition of 1745

Esterase, choline in cattle, fenthion inhibition of 1590 in cattle blood, famphur inhibition of 3329

in fowl, effects of dichlorvos on 2564

in human blood, organophosphate inhibition of 23 in human plasma, malathion inhibition of

2952 in man, organophosphate inhibition of

1684 in Musca domestica, role in insecticide

resistance of 1606

in Periplaneta americana nervous system, effects of X-irradiation on 1169 in rat, malathion inhibition of, effects of drugs on 750

in Triatoma infestans eggs, activity pattern

in Triatoma infestans embryo, parathion inhibition of 1745

insecticide inhibition of, in relation to selective toxicity 761

Esterase, juvenile hormone in Musca domestica, inhibitors of 2795 in Tenebrio molitor, inhibitors of 2795 in Trichoplusia ni, inhibitors of 2795

Ethanaminium, 2-(acetyloxy)-N,N,N-

trimethyl-

in insects receptors for 1159

receptors in central nervous system for 1998

in Periplaneta americana, effects on activity of head ganglia neurons of 2845

in Periplaneta americana nervous system, effects of X-irradiation on 1169 in rat brain, Tityus serrulatus venom

causing release of 1677

Ethane, 1,1,1-trichloro-, for rapid killing of ants in soil samples 481

1,2-Ethanediamine, N-[(4-

methoxyphenyl)methyl]-N-2-pyridinyl-

(see Mepyramine)
1,2-Ethanediol, 1-(2,4,5-trichlorophenyl)-, in cattle, tetrachlorvinphos metabolite 1451

Ethanesulfonic acid, 2-amino-, in Periplaneta americana, effects on giant interneurone synapses of 2559

Ethanethioamide, in Musca domestica, development inhibition by 3356

Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester (see Methomyl)
Ethanolamine kinase (see Kinase

(phosphorylating), ethanolamine)

Ethene, chloro-

homopolymer genitalia vials made from tube of 1017 insecticide-impregnated cattle ear tags

slow-release insecticide formulations in 807

Ethion (S,S'-methylene bis(O,O-diethyl phosphorodithioate))
resistance to, in

Boophilus microplus in New Caledonia in South Africa 939

Ethiopia Glossina spp. in 1306 Ixodoidea in, book 951 malaria in 3195 trypanosomiasis in 1306 Ethiopian region (see Afrotropical region) Ethoate-methyl (S-[2-(ethylamino)-2oxoethyl] O,O-dimethyl phosphorodithioate) against, Musca domestica 1893 Ethyl hexanediol (2-ethyl-1,3-hexanediol) repellent for, Simuliidae, on cattle 1288 Eublaberus posticus, digestive enzymes in 1161 Eubrachylaelaps rotundus in Brazil 2491 on Akodon arviculoides, in Brazil 2491 Eucalliphora lilaea enzymes in 2712 insecticide susceptibility in, role of microsomal oxidase in 2712 Eucheyletia bishoppi in USA 509 on Sorex pacificus, in Oregon 509 on Sorex trowbridgii, in Oregon 509 Eucoila impatiens parasitising Lucilia cuprina 480 Musca domestica Eucorethra underwoodi habitats of 672 in Canada 672 **Eudasyphora** key 683 taxonomy of, Dasypyrellia as synonym of Eudyptes pachyrhynchus, Leucocytozoon tawaki in, in New Zealand 142 euedes, Aedes Eufilaria taxonomy of characters distinguishing Chandlerella and 1573 characters distinguishing Splendidofilaria and 1573 Eufilaria bartlettae sp. nov., description of 1573 in Culicoides nubeculosus, development of Turdus merula, in France 1573 Eufilaria delicata descriptions of 1573 Culicoides nubeculosus, development of Turdus merula, in France 1573 Euglenophyta, eaten by Simulium larvae Eugregarina, in, insects 3136 Euhoplopsyllus glacialis lynx in USA (Alaska) 2322 on Lynx canadensis, in Alaska 2322 Pasteurella tularensis in, in Alaska 2322 Eulaelaps, on Mus musculus, in Crimea 1060 Eulaelaps stabularis blood-meals in, identification of 1954 in Hungary 2244 in Hungary 2244 in USA 289, 2302 in USSR 1046, 3389 in Apodemus agrarius burrows 1954 on Didelphis virginiana, in Oregon 2302 on Rodentia, in Maritime Territory 3389 3389 on Scapanus townsendi, in Oregon 289 Eumenidae in British Isles 691 in Malta 1384 eupeus, Buthus (see Mesobuthus eupeus) eupeus, Mesobuthus (Buthus) Euproctis, control of, insecticides for 2792 Euproctis chrysorrhoea control of, insecticides for 3377 in UK 3377 in railway embankments, in England 3377 Eurax (see Crotamiton) Euroglyphus maynei in UK 1975

in bedding, in UK 1975 on man, hypersensitivity to 923

Europe cattle in, ticks and tick-borne diseases 1948 sheep in, ticks and tick-borne diseases 1948 tick-borne encephalitis in 1946 Europe, central Heteroptera in, on man 803 Siphonaptera in, on man 820 Europium, marker for, Glossina spp. Eurycotis floridana, sternal glands in Euryparasitus in rodent nests, in Transbaikalia 1032 on moles, in Oregon 289 eurysternus, Haematopinus Euschoengastia striata in China 997, 2760 on Rodentia, in Kiangsu 2760 seasonal abundance of 997 Eusimulium chromosomes in taxonomy of 1579 Eusimulium angustitarse (see Simulium angustitarse) Eusimulium aureum (see also Simulium aureum) in Guatemala 144 pathogens of, in Guatemala 144 Eusimulium brachyantherum (see Simulium brachyantherum) Eusimulium brevidens (see Simulium brevidens) Eusimulium codreanui (see Simulium codreanui) Eusimulium costatum (see Simulium costatum) Eusimulium crenobium (see Simulium crenobium) Eusimulium erimoense (see Simulium erimoense) Eusimulium latipes (see Simulium latipes) eusoricis, Hirstionyssus eustrigata, Calyptra Eutamias minimus Colorado tick fever, virus in, in Colorado 1403, 3406 Dermacentor andersoni on, in Colorado 1403, 3406 Eutamias umbrinus, Colorado tick fever, virus in, in Colorado 3406 Eutrombicula habitats of 2811 in West Malaysia 2811 Eutrombicula alfreddugesi in USA 3145 on Sylvilagus floridanus, in Indiana 3145 Eutrombicula batatas hosts of 982 in USA 982 on man, in Arizona 982 Evania appendigaster, parasitising, Periplaneta americana 788 evertsi, Rhipicephalus ewingi, Geomydoecus Exanthema in man caused by arboviruses 1826 caused by Dermanyssus gallinae 2242 excavatum, Hyalomma anatolicum excrucians, Aedes Exhaust gases, anesthetic for Cochliomyia hominivorax 2434 Exhyalanthrax in Arabian Peninsula 2532 parasitising, Glossina spp. exigua, Haematobia irritans exigua, Lyperosia (see Haematobia irritans exigua)
exiguum, Simulium
exilis, Listrophoroides eximia, Lucilia (Phaenicia) eximia, Phaenicia (see Lucilia eximia) expollicata, Hybomitra exsecta, Formica exstincta, Acanthocera Eyelid diseases caused by Demodex folliculorum 1415 role of Demodex in 1666 fabae, Aphis faceta, Epitedia fagineus, Culicoides fahrenholzi, Androlaelaps

Fahrenholzia, on small mammals, in Mexico 1465 faini, Araeopsylla Falco mexicanus, Ornithodoros concanensis on, in Alberta 954 Falcon, prairie (see Falco mexicanus) Fallow fields, Psorophora columbiae in, mapping of 3278

Famphur (O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl phosphorothioate) Cephenemyia trompe, on reindeer 3008 Hypoderma bovis, on cattle 3329
H. lineatum, on cattle 3329
Oedemagena tarandi, on reindeer 3008
in birds, poisoning by 3009
in cattle, cholinesterase inhibition by 3329 Fannia canicularis attraction of, to hornet nests 1631 control of 199 growth regulators for insecticides for 1 descriptions of 160 1140 in USA 1631 taxonomy of characters distinguishing F. manicata and 160 characters distinguishing F. scalaris and 160 Fannia manicata descriptions of 160 taxonomy of characters distinguishing F. canicularis and 160 characters distinguishing F. scalaris and 160 Fannia scalaris descriptions of 160 taxonomy of characters distinguishing F. canicularis and 160 characters distinguishing F. manicata and 160 Fanniidae, taxonomy of 905 farauti, Anopheles Farhangia, gen. nov., description of 2306 Farhangia celebensis, taxonomy of, transferred from Pygiopsylla 2306 fariai, Telenomus farinae, Aleurobius (see Acarus siro) farinae, Dermatophagoides farinae, Tyroglyphus (see Acarus siro) Farm buildings, Musca domestica in, in Italy 657 Farming, mosquito breeding sites as affected by 852 fasciatus, Ceratophyllus (see Nosopsyllus fasciatus) fasciatus, Nosopsyllus (Ceratophyllus) fasciolatus, Tityus trivittatus fascipennis, Culicoides fatigans, Culex (see C. quinquefasciatus) fatigans, Culex pipiens (see C. quinquefasciatus) Fats, in Glossina pallidipes adults, variation in 1313 Fatty acids in Argas arboreus, developmental changes in 2757 in Blattella germanica tergal-gland secretion 784 in Boophilus decoloratus eggs in Dermacentor andersoni, developmental changes in 2757 changes in in Glossina palpalis 2402 in Solenopsis invicta post-pharyngeal glands 2203 Feedstuffs, production from animal wastes of 2710 felicia, Wyeomyia Felicola subrostratus in Hungary 2012 on cat, in Hungary 2012 Felicola vulpis in Hungary 2012 on Microtus arvalis, in Hungary 2012 Felis catus (see Cat) felis, Ctenocephalides
Felis domesticus (see Cat)
Fenchlorphos (O,O-dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate)

Fenchlorphos contd.	Fenthion contd.	Finland
Alphitabing diagoninus in famil housing	against contd.	Cephenemyia trompe in, on reindeer
Alphitobius diaperinus, in fowl housing 687	Mansonia contd.	3008
	M. uniformis 2057	Coleoptera in, in cattle dung 490
Cheyletiella spp. on cat 1965	Rhodnius prolixus 2573 in cattle	Culicidae in 2957 Cyclorrhapha in 2344
on dog 1965	residues of 1590	
Cochliomyia hominivorax 1362	toxicity of 1590	Diptera in, in carrion 3364 entomological literature from 2797
Demodex canis, on dog 2766	in pastures, non-target effects of 3210	Oedemagena tarandi in, on reindeer
Haematobia irritans, on cattle 470	in vertebrates, toxicity of 1713	3007, 3008
Knemidokoptes pilae, on budgerigar	resistance to, in	Rhipicephalus sanguineus in, on dog
1663	Anopheles subpictus, in Pakistan 1775	3400
Simuliidae, on cattle 1289	Culex pipiens 2604	Simuliidae in 1577
resistance to, in, Demodex canis, in	C. quinquefasciatus 1221	Sphaeridium spp. in, in dung 1928
Queensland 2766 Fenethacarb (3,5-diethylphenyl	Culicidae, in Utah 3212	Finlaya, in tree holes, in Kenya 2876
methylcarbamate)	with trichlorphon, against, Culex pipiens	Fish
against, Culicidae 1235	2604	Bacillus thuringiensis in, pathogenicity of
non-target effects of 1235, 1530	Fenthion-ethyl (see Phosphorothioic acid,	2086
Fenitrothion (O,O-dimethyl O-(3-methyl-4-	O,O-diethyl O-[3-methyl-4-	deltamethrin in, toxicity of 2982
nitrophenyl) phosphorothioate)	(methylthio)phenyl] ester)	endosulfan in, toxicity of 1327, 3005
against	Fentin acetate ((acetyloxy)triphenylstan-	in rivers, effects of methoxychlor on
Aedes aegypti 2640	nane) in Musca domestica, effects on ovarian	1281, 1284 methoxychlor in
A. cantans 828 Anopheles spp. 3194	development of 473	residues of 1274, 1276
A. annularis 1775	review 3125	toxicity of 2980
A. balabacensis 2055	Fentin chloride (chlorotriphenylstannane)	permethrin in, toxicity of 2713
A. culicifacies 1775, 2382, 3218	review 3125	phenothiazine in, toxicity of 1012
A. nigerrimus 1775	Fentin hydroxide (hydroxytriphenylstan-	preying on
A. pulcherrimus 1775	nane)	Culex tritaeniorhynchus
A. stephensi 1775, 2640	in Musca domestica, effects on ovarian	in Japan 1226
A. subpictus 1775, 2640	development of 473	in Kyushu 99
Armigeres subalbatus 2640 Blattaria 788	review 3125 Fenvalerate (cyano(3-phenoxyphenyl)methyl	Culicidae and biological control using 3272
Culex molestus 401	4-chloro-α-(1-methylethyl)benzeneace-	in China 1827
C. quinquefasciatus 2640	tate)	Simuliidae, in USSR 1045
C. sitiens 2640	against	SIR-8514 in, toxicity of 1014
C. tritaeniorhynchus 2640	Aedes aegypti 1810	temephos in, residues of 1691
C. whitmorei 2640	Alphitobius diaperinus, in fowl housing	Fish meal, bait component for, Musca
Culicidae 1712	687	domestica 3017
Culicoides barbosai 626 C. furens 626	Anopheles quadrimaculatus 1193	fissicornis, Onthophagus
Musca domestica 528	Blattella germanica 657, 1144, 1440 Calliphora vicina 1440	fitchii, Aedes Fitios (see Ethoate-methyl)
Rhodnius prolixus, in dwellings 561	Chironomidae 3346	Flagellates, in, insects 3136
Sarcoptes scabiei, on camel 3093	Culicidae 78, 2111	Flanders virus
Stivalius cognatus 565, 1190	Haematobia irritans, on cattle 2422,	in
on Rattus 3188	3010	Culex spp., in Indiana 2900
Xenopsylla cheopis 565, 1190	Musca domestica 657, 1144	C. pipiens, in New York State 3246
on Rattus 3188	Ornithonyssus sylviarum, on fowl	flava, Haemaphysalis
on walls, persistence of 401 resistance to, in	1953 Panstrongylus megistus 1507	flavicornis, Limnephilus flaviscutellata, Lutzomyia
Anopheles culicifacies	Psorophora columbiae 1193	Flavivirus, in, Culicidae, in French Guiana
in Gujarat 2382	Rhipicephalus appendiculatus 699	1154
in Maharashtra 2382	in cattle ear tags 2422, 3010	Flavobacterium indothelicum
Boophilus microplus, in South Africa	in insects, physiological effects of 1444	in
939	in Periplaneta americana, neurotoxicity of	Argas persicus, in Pakistan 247
Culex pipiens 2604	3435	poultry, pathogenicity of 247
with malathion, and pyrethrins, against, Alphitobius diaperinus, in fowl	isosteres of, insecticidal activity of 1985 resistance to, in, Culex quinquefasciatus	flavopictus, Aedes flavopilosa, Vespula
housing 687	2353	flavus, Culicoides grisescens
with trichlorphon, against, Culex pipiens	synergists for, piperonyl butoxide as	Flea (see Siphonaptera)
2604	1193	Flea collars, for cat, problems caused by
Fenpropathrin (cyano(3-	fernandica, Hemipyrellia	2026
phenoxyphenyl)methyl 2,2,3,3-	ferox, Psorophora	Flea infestations
tetramethylcyclopropanecarboxylate) in <i>Periplaneta americana</i> , neurotoxicity of	ferrisi, Solenopotes	in cat 365, 1417, 2325, 2872 in dog 1417, 2028, 2584, 2872
3435	ferruginata, Coproica (see Leptocera ferruginata)	in fowl 1493, 2564
Fensulfothion (O,O-diethyl O-[4-	ferruginata, Leptocera (Coproica)	in goat 47
(methylsulfinyl)phenyl]	Fertilizers	in guineafowl 1493
phosphorothioate)	for rice, effects on Chironomidae of 1624	in man 48, 52, 566, 820, 1417, 2316,
WHO data sheet on 3121	mosquitoes as affected by 2128	2341, 2584, 2837, 2865
Fenthion (O,O-dimethyl O-[3-methyl-4-	with insecticides 2942	in mouse 567, 2871
(methylthio)phenyl] phosphorothioate)	festai, Ixodes Fever	in rabbit 46, 2323, 2324, 2335, 2336, 2869
Aedes aegypti 2640	in Bos taurus \times B. indicus, caused by	in sheep 47
A. dorsalis 3210	Chrysomya bezziana 663	fletcheri, Leptotrombidium
A. melanimon 3210	in man, caused by arboviruses 1826	Flit MLO, against, Culex quinquefasciatus,
A. vexans 2040	Ficam (see Bendiocarb)	in pig waste 374
Anopheles annularis 1775	Fiji	Flood-control systems
A. culicifacies 1775, 3218	Aedes spp. in 412, 1236	Chironomidae in, in California 2413,
A. pulcherrimus 1775 A. stephensi 1775, 2640	Culex spp. in 412 Culicoides brevitarsis in, natural enemies	3346 midge control in 2413
A. subpictus 2640	of 2659	florenciae, Culicoides
Armigeres subalbatus 2640	mosquito control in 412	floricolus, Tarsonemus
Culex pipiens 2040	Psoroptes spp. in, on goat 1658	Florida
C. quinquefasciatus 2640, 3269	Filariasis, in Philippines 2804	Aedes aegypti in, natural enemies of 65
C. sitiens 2640	Filarioidea, in, Culicidae, transmission of	A. taeniorhynchus in, natural enemies of
C. tritaeniorhynchus 2640	3225, 3284	2077
C. whitmorei 2640	filicinus, Culicoides	Amblyomma americanum in 3059
Culicidae 1713 Hypoderma spp., on cattle 2689	Films, unimolecular for mosquito control 373	Anopheles crucians in, natural enemies of 2046
H. bovis, on cattle 1590	of lecithins, against, Anopheles spp. 854	Chironomidae in 1366, 1905
Mansonia annulifera 2057	fimetarius, Aphodius	on man 912

1718

mosquito control in, insecticides for 1827

Forests, alder

Ceratopogonidae in, in Belorussia

Culicidae in, in Belorussia 1058

Formicidae Florida contd. Forests, broad-leaved foothill, on man, hypersensitivity to 2132 Chironomus attenuatus in, natural Haemaphysalis japonica in, in Maritime Territory 2734 Salmonella newport in, in Uttar Pradesh enemies of 3342 Culex nigripalpus in 371, 2609 Forests, cedar-broad-leaved, Haemaphysalis in sewage systems 373 sporozoites in 837 japonica in, in Maritime Territory 2734 venoms of, toxicity to mouse of 2205 formosus, Aedes aegypti Formothion (S-[2-(formylmethylamino)-2-oxoethyl] O,O-dimethyl Forests, coniferous, Haemaphysalis japonica C. quinquefasciatus in, in sewage systems in, in Maritime Territory 2734 Forests, fir, Culicidae in, in Belorussia phosphorodithioate) Culicoides spp. in 131 Forests, floodplain C. mississippiensis in 1842 Culicidae in, in Belorussia 841 against, Musca domestica 1893 Geomydoecus spp. in, on Thomomys Hybomitra lasiophthalma in, in Texas Fort Morgan virus characterisation of 2219 Forests, gallery (see Forests, riverine) Forests, hardwood, Tabanus spp. in, flight paths of 2440 Goeldichironomus holoprasinus in, natural enemies of 3342 in Oeciacus vicarius in Colorado 1749, 2219 in South Dakota 1749 transmission of 563 Musca domestica in 3371 in animal housing 455 in cattle farms 367 Forests, larch, Ixodes trianguliceps in, in Ukraine 2736 Passer domesticus, in Colorado 2219 Forests, littoral oak, Haemaphysalis Solenopsis invicta in 918, 1387, 3384 japonica in, in Maritime Territory Petrochelidon pyrrhonota, in Colorado Stomoxys calcitrans in 904, 3352 Forests, marsh, Ixodes trianguliceps in, in 2219 fossor, Aphodius fotus, Thrassis foulki, Leptoconops in cattle farms 367
Tabanus aranti in 1597 Ukraine 2736 Forests, oak Ceratopogonidae in, in Belorussia Culicidae in, in Belorussia 1058 floridana, Eurycotis Fowl (Gallus domesticus)

Aedes sierrensis on, feeding by 2100 Flower vases, Aedes aegypti in, in Fiji 412 Fluorescein Forests, riverine Amblyomma americanum on, rearing of Aedes africanus in, in Central African Republic 2066 marker for Cochliomyia hominivorax 1133
C. macellaria 1133
Fluorescence, of Musca domestica, relation
of linoleic acid and 2172 2467 A. opok in, in Central African Republic 2066 Argasidae on, in Iran 2211 arthropod parasites of, in Nigeria 1493 Culex spp. on, in India 573 Glossina morsitans in, in Niger 1327 Fluorescent antibody technique G. palpalis in Dermanyssus gallinae on, carotenoids in in Ivory Coast 2986, 2987 in Upper Volta 435, 873, 1088, 1323, 1324, 1326, 1875, 1884, 3004 resting places of 1698 for detecting bluetongue virus in 800 Culicoides 627 dichlorvos in, toxicity of 2564 for detecting dengue virus in

Toxorhynchites amboinensis 2883 Hyalomma marginatum on, development of 244 insect growth regulators in, residues of 2428 G. tachinoides in fluviatilis, Anopheles in Ivory Coast 2986, 2987, 2988 in Niger 1327 Fly pupae, diet component for, Solenopsis invicta 482 insecticides in, residues of 1430 in Upper Volta 435, 1875, 2982 resting places of 1698 Flying squirrel, southern (see Glaucomys Knemidokoptes mutans on, in Indonesia volans) 2806 FMC 30980 (see Cypermethrin)
FMC 35171 (see Permethrin, (1RS-cis)-)
FMC 45497 (see Cypermethrin, (1RS-cis)-)
FMC 45498 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dibromoethenyl)-2,2-dibromoethenyl tsetse control in, aerial sprays for 2401

Forests, spruce-fir, Haemaphysalis japonica
in, in Maritime Territory 2734 Mallophaga on, in Spain 340 Menopon gallinae on, carotenoids in 800 Mycoplasma gallisepticum in, tick transmission of 1029
Ornithocoris toledoi on, feeding by 1747 Forests, tropical Culicidae in, effects of temperature on Ornithonyssus sylviarum on acquired immunity to 2764 in California 1953 in Pakistan 731 dimethyl-, cyano(3-2283 phenoxyphenyl)methyl ester, $[1R-[1\alpha(S^*),3\alpha]]$ -foederatus, Polistes foersteri, Aneuropria folliculorum, Demodex Phlebotominae in, effects of temperature on 2283 Forficula auricularia, activity in, rhythm of pest control on dichlorvos for 2564 phosalone for 2562 Formaldehyde, attractant for, Glossina spp. fontinella, Cuterebra Formica, insecticides on, persistence of 203 Formica, helminths in, in Uzbekistan 316 Food-processing factories, pest control in, Phthiraptera on in Afrotropical region, book 1177 in Nigeria 2013 Rhodnius pallescens on, in Panama 2576 insecticides for 1143 Foodstuffs Formica cinerea armenica arthropod pests of, book biology of 1068 Ossetia 1068
in USSR 1068 Saint Louis encephalitis, virus in, in California 2081 pesticides in, residues of 529, 3128 Forcipomyia Japanese encephalitis, virus in, in China 1827 western equine encephalitis, virus in, in California 2080, 2081 Formica cunicularia mouthparts in 3300 control of 2727 Fowl carcasses Forcipomyia sibirica, taxonomy of, Dicrocoelium lanceolatum in, in France Chrysomya megacephala in, in Hawaii characters distinguishing F. taiwana and 2727 480 in France 2727 nests of 2727 865 Lucilia cuprina in, in Hawaii 480 Forcipomyia taiwana biology of 418 Fowl dung Formica exsecta fukaii prey of, defence mechanisms of 2846 preying on, Periplaneta spp. 2846 fly control in descriptions of 865 in China 418 rearing of, techniques for 418 taxonomy of, characters distinguishing F. sibirica and 865 insect growth regulators for 2428, 2436, 3012 insecticides for 2703 Formica gagates
Dicrocoelium dendriticum in, in
Yugoslavia 688
in Yugoslavia 688 Hermetia illucens in, not affected by erythrosin B 191

Musca domestica in Forcipomyia townsvillensis, Onchocerca gibsoni in, transmission of 2654 Formica mesasiatica in Indiana 3012 Forest clearings Dicrocoelium dendriticum in, in Kirgizia in Mississippi 191 Aedes aegypti in, in Nigeria 1194 A. africanus in, in Nigeria 1194 3053 in USSR Fowl eggs 3053 diet component for, Solenopsis invicta Formica nigricans control of 2727 Forest fires, Ixodidae as affected by 3411 482 insect growth regulators in, residues of 2428 Forest pests control of, insecticides for 1218 pathogens of, role in population dynamics of 2839 Dicrocoelium lanceolatum in, in France 2727 Fowl feed insect growth regulators in, for fly control in dung 2428, 3012 in France 2727
nests of 2727
Formica picea (see F. transkaucasica) **Forests** Culicidae in, in Ryukyu Islands 121 Haemagogus spp. in, in Brazil 2627 permethrin in, for fly control in dung Formica rufibarbis 2703 biology of 1068 Fowl housing Ixodes trianguliceps in, in Udmurt ASSR Alphitobius diaperinus in in Austria 687 in Japan 2204 Dicrocoelium dendriticum in, in North Ossetia 1068 in USSR 1068 medically-important arthropods in, book 1151 mosquito control in 2918, 2919 Formica transkaucasica biology of 1068 Dicrocoelium dendriticum in, in North Argas persicus in
in Armenia 1718
in Egypt 718
Cimex lectularius in, in Armenia pest management in, book 2833

Ossetia

in USSR 1068

1068

Fowl housing contd.	Frontopsylla frontalis utia contd.	Fungus contd.
pest control in, insecticides 687	in China 567	Coelomomyces contd.
Rhodnius pallescens in, in Panama 2576	on Marmota caudata, in China 567	C. opifexi 107
Fowl meat, naled in, uptake from air of	Frontopsylla luculenta	C. ponticulus 588
2266	in USSR 1026	C. psorophorae 1237
Fox Haemaphysalis flava on, in Honshu 3085	on Microtus brandti, in Transbaikalia	C. punctatus 394
mite control on, acaricides for 728	1026 Fructofuranosidase, β-	C. quadrangulatus 2031
Fox, red (see Vulpes vulpes)	in Periplaneta americana mid-gut,	C. stegomyiae 588, 2031 Coelomycidium 144
France	regulation of activity of 2840	C. simulii 1065
Aedes detritus in 3297	in Sarcophaga albiceps mid-gut 3014	Culicinomyces 1729
natural enemies of 58	D-Fructose	C. clavosporus 62, 1829
A. dorsalis in 2052	in Phormia terraenovae, receptors for	Dermatophilus congolensis 777
Anopheles spp. in, introductions of 3200 A. claviger in 3199	910 in <i>Psorophora ferox</i> 1208	Doratomyces 1757
A. maculipennis in 3199	Musca autumnalis feeding responses to	Entomophthora 454, 1757
Bubas spp. in, in cattle pastures 2207	474	E. apiculata 202
canine leishmaniasis in 132, 134	frugiperda, Spodoptera	E. aquatica 1563
Culex pipiens in 2886, 3297	Fruit (stored)	E. conglomerata 1019 E. culicis 1025
Culicidae in 1709	dichlorvos in, uptake from air of 2267	E. muscae 3031
Culicoides spp. in 1574 natural enemies of 3299	naled in, uptake from air of 2267 Fucellia capensis	Fusarium 1025, 1757
C. circumscriptus in 1251	biology of 2439	F. oxysporum 1019, 2937
Demodex folliculorum in, on dog 1665	in South Africa 2439	Malassezia pachydermatis 2240
Dermacentor reticulatus in 2743	on Ecklonia maxima, development of	Metarhizium anisopliae 445, 596, 860
Diptera in, on cattle 223	2439	1043, 1065, 2641, 3266, 3336
Formica cunicularia in, trematodes in	Fuchsine, marker for, Siphonaptera 360	Mucor circinelloides 1019
F. nigricans in, trematodes in 2727	fukaii, Formica exsecta fulgens, Aedes	M. fuscus 1669 M. saturninus 1019
Haematopota spp. in 17	fuliginosa, Periplaneta	Nocardia farcinica 502
Ixodes ricinus in 2743	fuliginosus, Chrysops	Paecilomyces varioti 1025, 1757, 3336
on Clethrionomys 3392	fulvipes, Heterometrus	Penicillium 1019, 1025, 1757
Ixodoidea in, on sheep 320	fulvus, Oniticellus	P. cyclopium 1669
malaria in 3198	Fumigants	Phoma 1757
Melophagus ovinus in, on sheep 320 mosquito control in 832, 2954, 2955,	in foodstuffs, residues of 3128 substances tested as: citral 3124	Pyricularia 87 Rhizopus 1025
3265, 3266	Funambulus pennanti, Neohaematopinus	R. stolonifer 2968
Phlebotominae in 2967	qadrii on, in Pakistan 3165	Saprolegnia 1757, 1902
Phlebotomus ariasi in 132, 134, 636,	Fundulus heteroclitus, preying on, Culicidae,	S. monoeca 1019
2149	in New Jersey 3207	Smittium 2043
P. mascittii in 2149	Fundulus luciae, preying on, Culicidae, in	Streptomyces culudicus 1827
Pyemotes zwoelferi in, on man 1967 Scarabaeidae in 2208	New Jersey 3207 funebris, Drosophila	Tabanomyces milkoi 3336 Trichoderma 1025, 1757
in dung 919	funestus, Anopheles	Fur bearers
Sciomyzidae in 1349	Fungi	mite control on, acaricides for 728
Simulium spp. in 426	in	pest control on, acaricide applicators fo
Siphonaptera in, on rabbit 2335	Culicidae 2837	740
Sphaeridium spp. in, in dung 1928 Tabanidae in 217	review 1783 insects, defence mechanisms against	3-Furancarboxylic acid, 5-(phenylmethyl)- in rat, bioresmethrin metabolite 1452
natural enemies of 659	544	furcatus, Onthophagus
on horse 2185, 3034	invertebrates, role in population	furcifer, Aedes
Tabanus darimonti in 3368	dynamics of 2839	furens, Culicoides
tick-borne encephalitis in 1946	medically-important arthropods,	furmani, Ischyropoda
Franciscanus, Anopheles Francisclla tularensis (see Pasteurella	bibliography 2517 Simuliidae, in Ukraine 1055	Furniture, Anobium punctatum in, in Singapore 1657
tularensis)	Solenopsis spp., in Brazil 1627	7H-Furo[3,2-g][1]benzopyran-7-one, 4,9-
Fratercula arctica, Ixodes uriae on, in	Tabanidae	dimethoxy-
Norway 702	in France 659	antifeedant for
freeborni, Anopheles	in USSR 3040, 3336	Blattella germanica 2796
French Guiana Culex adamesi in 584	insect control using 3118	Musca domestica 2796 Neostylopyga rhombifolia 2796
Culicidae in 2358	non-target effects of 2258 review 1680	Periplaneta americana 2796
insect-transmitted diseases in 1154	mosquito control using 3194	7H-Furo[3,2-g][1]benzopyran-7-one, 4-
Lutzomyia spp. in 2390	pesticides in, penetration of 2503	methoxy-
L. claustrei in, on man 139	Fungicides	against, Culex pipiens 2796
L. umbratilis in	bioassay of, review 1455	antifeedant for Blattella germanica 2796
flagellates in 2969 on man 140, 2969	in rice-fields, not affecting Chironomidae 1624	Musca domestica 2796
Phlebotominae in, on man 422	use of, in South Africa 1984	Neostylopyga rhombifolia 2796
Psorergatoides spp. in, on bats 736	Fungus 544, 659, 1055, 1627, 1680, 1783,	Periplaneta americana 2796
French Polynesia	2258, 2503, 2517, 2660, 2837, 2839,	7H-Furo[3,2-g][1]benzopyran-7-one, 9-
Boophilus annulatus in, on cattle 1943	3040, 3118, 3194	methoxy-
Rhipicephalus sanguineus in on cattle 1943	Achlya hypogyna 1019 Alternaria 1025, 1757	antifeedant for Blattella germanica 2796
on dog 1943	Amoebidium 2043	Musca domestica 2796
French West Indies, heartwater in 958	Arthromitus 2043	Neostylopyga rhombifolia 2796
Amblyomma variegatum in 958	Aspergillus 1025, 1757	Periplaneta americana 2796
freta, Meoneura	A. fumigatus 992	Furunculosis, in man, caused by Cordylob
frici, Schoutedenichia fringillina, Ornithomya	A. niger 1019 A. terreus 2968	anthropophaga 2417 Fusarium, in, Culicidae, in Ukraine 1025
frisiae, Zygoribatula	Beauveria 1687	1757
Frog, Vespa orientalis mid-gut extracts in,	B. bassiana 1019, 1043	Fusarium oxysporum
effects on neuromuscular junctions of	B. tenella 2641	in
483	Candida albicans 3108	Aedes detritus, in Italy 2937
froggatti, Sarcophaga frontalis, Frontopsylla	Cephalosporium 1025, 1757 Coelomomyces 622, 767, 1019, 1038	Culicidae, in USSR 1019 fusca, Glossina
Frontopsylla frontalis baibacina	C. dodgei 394, 611	fusca, Protaetia
ssp. nov., description of 567	C. dubitskii 2031	fuscicostatus, Tabanus
in China 567	C. iliensis 1065	fuscipennis, Sepedon
on birds, in China 567	C. lativittatus 394	fuscipes, Glossina
on Marmota himalayana, in China 567	C. macleayae 2031	fuscocephalus, Culex
Frontodsviia irontalis iilia	C. milkoi 445, 1065	fuscus, Blaberus (see B. craniifer)
Frontopsylla frontalis utia ssp. nov., description of 567	C. milkoi 445, 1065 C. omorii 2031	fuscus, Blaberus (see B. craniifer) GABA (see Butanoic acid, 4-amino-)

Jabon Channel in 961	Classics are in an actual 1200	Gasterophius intestinaus conta.
Chrysops spp. in 861	Glossina spp. in, on cattle 1299	in USSR 442 on horse
Culicoides grahamii in 861	G. morsitans in	in Buryatia 442
filariasis in 861	on cattle 1298, 1305	in Morocco 2166
ragates, Formica	on man 1317	seasonal abundance of 2166
gagates, Onthophagus Gahrliepia, Rickettsia tsutsugamushi in, in	G. palpalis in, on cattle 1298, 1305 Mansonia spp. in 2363	sound production in, endothermy and
Maharashtra 3090	M. africana in, on man 393	1337
Gahrliepia agrariusia	trypanosomiasis in 1298, 1299, 1305	Gasterophilus nasalis
in China 997	yellow fever in 2037, 2038	biology of 442
seasonal abundance of 997	gambiae, Anopheles	in Morocco 2166
Gahrliepia lamella	gambiensis, Glossina palpalis	in USSR 442
sp. nov., description of 294	Gamboa viruses	on horse
in China 294	in	in Buryatia 442
on Eothenomys melanogaster, in Anhui	Aedeomyia squamipennis	in Morocco 2166
294 Cabuliania latigautata	in Argentina 2629 in Ecuador 2629	seasonal abundance of 2166 Gasterophilus nigricornis
Gahrliepia latiscutata sp. nov., description of 3098	in Panama 2629	biology of 442
in China 3098	Gambusia	in USSR 442
on Eothenomys melanogaster, in Anhui	aquatic weeds as affecting 2346	on horse, in Buryatia 442
3098	neem extracts in, toxicity of 3216	Gasterophilus pecorum
Gahrliepia ligula (see Schoengastiella ligula)	preying on	biology of 442
Gahrliepia meridionalis	Anopheles spp., and biological control	in USSR 442
sp. nov., description of 1667	using 3194	on horse, in Buryatia 442
in China 1667	Culicidae, and biological control using,	Gasterosteus aculeatus, preying on,
on Apodemus agrarius, in Yunnan 1667	in Georgia (USSR) 2346	Culicidae, in New Jersey 3207
on Rattus rattus, in Yunnan 1667	water pollution as affecting 2346	Gastromermis
on <i>Tupaia glis</i> , in Yunnan 1667 Gahrliepia pyriformis	Gambusia affinis Bacillus thuringiensis in, not pathogenic	development in 145 in, Simulium spp., in Ivory Coast 14
sp. nov., description of 2769	3296	sex ratio in 145
in Zaïre 2769	DDT in, inducing vitellogenin synthesis	gazellus, Onthophagus
on Micropotamogale ruwenzorii, in Zaïre	3129	GBH (see Lindane)
2769	food preferences in 3213	geigyi, Boophilus
Gahrliepia saduski	food requirements of 2091	gejgelensis, Culicoides
in China 997, 2760	holding tanks for 2929	Gel diffusion tests, for identifying
on Rodentia, in Kiangsu 2760	in ponds, effects on ecosystem of 1543	Triatomine blood-meals 1506
seasonal abundance of 997	in rice-fields, effects on ecosystem of	gelidus, Culex
-Galactose, Musca autumnalis feeding	1543	geminata, Solenopsis
responses to 474 Galactosidase, a-	inorganic salts in, toxicity of 2794 insect growth regulators in, residues of	gemma, Amblyomma Genetic control
in Haematobia irritans gut 3369	3013	of arthropods
in Sarcophaga albiceps mid-gut 3014	marking of 2090	Aedes aegypti 2365
in Stomoxys calcitrans 3030	Microsporida in, in California 2097	Anopheles albimanus 3194
Galactosidase, β-	mosquito-control recirculation ditches as	A. gambiae 3194
in Haematobia irritans gut 3369	affecting 1782	Culex tarsalis 380
in Stomoxys calcitrans 3030	pesticides in, toxicity of 2794	model 2102
alapagoensis, Ixodes	pollution as affecting 2094	Culicidae 1706, 3284
Galapagos Islands, Ixodes galapagoensis in,	prey of, preferred sizes of 2092	review 3140
on Oryzomys 1949	prey preferences in 2093	Lucilia cuprina 167
aleratum, Simulium	preying on	Musca autumnalis 2447
Gallacanthus cornutus in Nigeria 1493, 2013	Aedes spp., and biological control using, in California 2121	Simulium spp. 1702 Stomoxys calcitrans 2447
on fowl, in Nigeria 1493, 2013	Culex quinquefasciatus 3213	vectors 6
on guineafowl, in Nigeria 1493	C. tarsalis 2092	geniculatus, Aedes
allegoi, Thyreophagus	Tubifex tubifex 3213	Genoneopsylla angustidigita
Galleria mellonella	traps for 2096	sp. nov., description of 2864
densonucleosis virus in 22	Game animals	in China 2864
Neoaplectana spp. in, culturing of 2693	arthropod parasites of, in South Africa	on Alticola stoliczkanus, in China 28
on man, hypersensitivity to 319	1888	on Ochotona, in China 2864
allicus, Polistes	arthropod pests of, in German Democratic	Genoneopsylla bisinuata
allinacea, Echidnophaga	Republic 1721 parasites of, in Africa, bibliography 13	sp. nov., description of 2864
allinae, Ceratophyllus		in China 2864
gallinae, Dermanyssus gallinae, Goniocotes	pest control on 1888 Gamma benzene hexachloride (see Lindane)	on Rattus coxingi, in China 2864 on Rattus niviventer, in China 2864
allinae, Menopon	Gamma-BHC (see Lindane)	Genoneopsylla claviprocera
Gallus domesticus (see Fowl)	Gamma-HCH (see Lindane)	sp. nov., description of 2864
Galumna nigra	Gan Gan virus, in, Culicidae, in New South	in China 2864
Anoplocephalata in, in Azerbaijan 1051	Wales 2033	on Apodemus latronum, in China 28
in USSR 1051	Gangrene, in Asian buffalo, caused by	on Pitymys irene, in China 2864
in pastures, in Azerbaijan 1051	Haematopinus tuberculatus 2250	Genoneopsylla thysanota
Gamasidae	Garbage dumps (see Rubbish dumps)	in China 2864
on rodents, in Indonesia 1963	Gardona (see Tetrachlorvinphos)	on Ochotona, in China 2864
on small mammals, in Maritime Territory 491	garei, Ceratophyllus Garlic (Allium sativum)	genowaysi, Geomydoecus
Gamasina, in Afghanistan 695	insecticidal activity of extracts of 2792	geometricus, Latrodectus geomydis, Geomydoecus
Gamasinae	Garlic extracts, with pyrethrins, against,	Geomydoecus
bacteria in, in Kirghizia 1033	Musca domestica 1447	on Geomys, key 33
in rodent nests, in Transbaikalia 1032	Gasterophilidae	taxonomy of, automated 2854
on bat, in Moldavia 1077	control of 2691	Geomydoecus asymmetricus
on birds, in Kirghizia 1033	in Nigeria 2003	sp. nov., description of 1492
on Rodentia, in Maritime Territory 3389	on livestock, book 2691	in Mexico 1492
Gamasoidea	Gasterophilus, in Tadzhikistan 154	on Thomomys umbrinus, in Mexico
on mouse-like rodents, in Crimea 993	Gasterophilus haemorrhoidalis	1492
on small mammals, in Bulgaria 1659	biology of 442	Geomydoecus birneyi
on Sorex, in USSR 1675 on subterranean mammals, in Hungary	in USSR 442 on horse, in Buryatia 442	sp. nov., description of 1171 in Mexico 1171
2244	Gasterophilus inermis	in USA 1171
Gambia	biology of 442	on Thomomys bottae, in North Ameri
Aedes spp. in, on man 393	in USSR 442	1171
A. aegypti in, viruses in 2037, 2038	on horse, in Buryatia 442	on Thomomys umbrinus, in North
Anopheles spp. in 2363	Gasterophilus intestinalis	America 1171
A. gambiae in 612	biology of 442	Geomydoecus californicus
A. melas in 612, 1823	in Morocco 2166	descriptions of 3164

Geomydoecus californicus contd.	Geomydoecus orizabae	German Democratic Republic
complex of	sp. nov., description of 1171	Blatta orientalis in 335
on Thomomys, in North America	in Mexico 1171	Blattella germanica in 335
3164	on Thomomys umbrinus, in Mexico	game animals in, arthropod pests of
taxonomy of 3164	1171	1721
Geomydoecus dickermani	Geomydoecus peregrini	Haematopinus suis in, on pig 802
descriptions of 1171	sp. nov., description of 1492	Musca domestica in, in pig housing
in Mexico 1171	in Mexico 1492	3350, 3351
on Thomomys umbrinus, in Mexico	on Thomomys umbrinus, in Mexico	Neotrombicula autumnalis in 1976
1171	1492	Oestroidea in, on livestock 2691
Geomydoecus ewingi, in USA 33	Geomydoecus potteri	Periplaneta americana in 335
Geomydoecus genowaysi	sp. nov., description of 1492	German Federal Republic
descriptions of 1492	in Mexico 1492	Aedes cantans in 1250
in Mexico 1492	on Thomomys umbrinus, in Mexico	A. rusticus in 1250
on Thomomys umbrinus, in Mexico	1492	arthropods in, common names of 545
1492	Geomydoecus shastensis	birds' nests in, overwintering arthropods
Geomydoecus geomydis hosts of 33	sp. nov., description of 31 in USA 31	in 2005
in USA 33	on Thomomys bottae	Culicidae in 1235
Geomydoecus geomydis subgeomydis,	in California 31	Culiseta morsitans in 1250
taxonomy of, raised to specific rank 33	in Oregon 31	Diptera in, on cattle 465
Geomydoecus greeri	Geomydoecus spickai	Haemaphysalis punctata in, on birds 956
sp. nov., description of 1492	sp. nov., description of 33	Haematopinus suis in, on pig 346, 1959
in Mexico 1492	in USA 33	human parasitic diseases in 534
on Thomomys umbrinus, in Mexico	on Geomys bursarius, in Missouri 33	Ixodes spp. in, on birds 956
1492	Geomydoecus subcalifornicus	I. ricinus in
Geomydoecus guadalupensis	descriptions of 2849	natural enemies of 3391
sp. nov., description of 2849	hosts of 2849	viruses in 233
in Mexico 2849	complex of 2849	mites in, in house dust 3094
in USA 2849	Geomydoecus subgeomydis	Musca domestica in, in cattle housing
on Thomomys bottae, in North America	in USA 33	1356
2849	taxonomy of, raised from subspecies of G.	Nematocera in, natural enemies of 468
Geomydoecus heaneyi	geomydis 33	Rhipicephalus sanguineus in 965
sp. nov., description of 33	Geomydoecus timmi	Sarcoptes scabiei in, on pig 1959
in USA 33	sp. nov., description of 1171	Scarabaeidae in, in dung 3055
on Geomys bursarius, in Texas 33	in Mexico 1171	Simulium spp. in, natural enemies of
Geomydoecus hueyi	in USA 1171	1268
sp. nov., description of 31	on Thomomys bottae, in North America	Tabanidae in 1358
in USA 31	1171	Tabanus cordiger in 469
on Thomomys bottae, in California 31	Geomydoecus williamsi	germana, Vespa crabro
Geomydoecus idahoensis descriptions of 31	sp. nov., description of 1171 in Mexico 1171	germanica, Blattella germanica, Pseudovespula (see Vespula
in USA 31	on Thomomys umbrinus, in Mexico	germanica)
on Thomomys townsendii, in USA 31	1171	germanica, Vespula (Pseudovespula)
taxonomy of, raised from subspecies of G.	Geomydoecus zacatecae	Gerridae, in ponds, effects of aquatic plants
oregonus 31	sp. nov., description of 1171	on 1243
Geomydoecus illinoisensis, in USA 33	in Mexico 1171	Gerris lacustris
Geomydoecus jamesbeeri	in USA 1171	in Czechoslovakia 2942
descriptions of 1492	on Thomomys bottae, in North America	in aquatic habitats, effects of pirimiphos-
in Mexico 1492	1171	methyl on 2942
on Thomomys umbrinus, in Mexico	on Thomomys umbrinus, in North	gerstaeckeri, Triatoma
1492	America 1171	Gesektin K (see Chlorpyrifos)
Geomydoecus johnhafneri	Geomylichus, on Perognathus parvus, in	gestroi, Psilus
sp. nov., description of 1171	Oregon 2249	Getah virus
in Mexico 1171	Geomylichus perognathi	in
on Thomomys umbrinus, in Mexico	sp. nov., description of 3096	Aedes aegypti, replication of 89
Geomydoecus markhafneri	in USA 3096	A. albopictus, replication of 89
sp. nov., description of 1171	on Perognathus fasciatus, in Oregon 3096	A. pseudoscutellaris, replication of 89 Culex tritaeniorhynchus, in Honshu
in Mexico 1171	on Perognathus parvus, in Oregon 3096	3286
on Thomomys umbrinus, in Mexico	Geomylichus texanus	man, in West Malaysia 1246
1171	in USA 2249	isolation of, in mosquito cell lines 2950
Geomydoecus minor	on Dipodomys ordii, in Oregon 2249	Geusibia stenosinuata
descriptions of 1171	Geomys, Geomydoecus spp. on, key 33	sp. nov., description of 568
in Mexico 1171	Geomys bursarius, complex of,	in China 568
in USA 1171	Geomydoecus spp. on, in USA 33	on small mammals, in Yunnan 568
on Thomomys bottae, in North America	Georgia	Ghana
1171	Andre collectone in in oult marches 2270	
on Thomomys umbrinus, in North	Aedes sollicitans in, in salt marshes 3279	Cordylobia anthropophaga in, on man
America 1171	A. taeniorhynchus in, in salt marshes	1375
	A. taeniorhynchus in, in salt marshes 3279	1375 Culicidae in 97
complex of, on Thomomys, in North	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932	1375 Culicidae in 97 Haemolaelaps spp. in 3422
complex of, on <i>Thomomys</i> , in North America 1171	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152
complex of, on <i>Thomomys</i> , in North America 1171 Geomydoecus nebrathkensis	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis)
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529	1375 Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-,	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi)
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-)	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Geraniol (see 2,6-Octadien-1-ol, 3,7-	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Geraniol (see 2,6-Octadien-1-ol, 3,7-dimethyl-)	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus descriptions of 31	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spinger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadien-1-ol, 3,7-dimethyl-) Gerbil, great (see Rhombomys opimus)	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta Glaucomys volans
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus descriptions of 31 in USA 31	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Gerbil, great (see Rhombomys opimus) Gerbil, great (see Rhombomys opimus) Gerbil, red-tailed (see Meriones erythrourus)	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta Glaucomys volans Orchopeas caedens on, in Massachusetts
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus descriptions of 31 in USA 31 on Thomomys bulbivorus, in Oregon 31	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Gerahil, great (see Rhombomys opimus) Gerbil, great siled (see Meriones erythrourus) gerbilli, Xenopsylla	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Euhoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta Glaucomys volans Orchopeas caedens on, in Massachusetts 3182
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus descriptions of 31 in USA 31 on Thomomys bulbivorus, in Oregon 31 complex of, key 31	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Geraniol (see 2,6-Octadien-1-ol, 3,7-dimethyl-) Gerbil, great (see Rhombomys opimus) Gerbil, red-tailed (see Meriones erythrourus) gerbilli, Xenopsylla Germacrene D (see 1,6-Cyclodecadiene, 1-	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus) glacialis, Hoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta Glaucomys volans Orchopeas caedens on, in Massachusetts 3182 Rickettsia prowazekii in, in Massachusetts
complex of, on Thomomys, in North America 1171 Geomydoecus nebrathkensis sp. nov., description of 33 in USA 33 on Geomys bursarius, in Nebraska 33 Geomydoecus neocopei descriptions of 1492 in Mexico 1492 on Thomomys umbrinus, in Mexico 1492 complex of, on Thomomys umbrinus, in Mexico 1492 Geomydoecus oklahomensis in USA 33 on Mustela frenata 33 Geomydoecus oregonus descriptions of 31 in USA 31 on Thomomys bulbivorus, in Oregon 31	A. taeniorhynchus in, in salt marshes 3279 cattle dung in, control of 1932 Haematobia irritans in in cattle dung 2699 on cattle 1367 human babesiosis in 3397 mosquito control in 383 Solenopsis invicta in 3384 Stomoxys calcitrans in 904 Vespula spp. in, on pig 914 Geotrupes spiniger dung utilisation by 2208 in France 2208 Geotrupidae, in Saudi Arabia 2529 Geranial (see 2,6-Octadienal, 3,7-dimethyl-, (E)-) Gerahil, great (see Rhombomys opimus) Gerbil, great siled (see Meriones erythrourus) gerbilli, Xenopsylla	Culicidae in 97 Haemolaelaps spp. in 3422 Simulium spp. in 1704, 2152 ghanensis, Demodex Gigantodax maxillary sensilla in 3309 pathogens of, in Guatemala 144 gigas, Goniodes glaber, Macrocheles glacialis, Euhoplopsyllus (Hoplopsyllus) glacialis, Euhoplopsyllus (see Euhoplopsyllus glacialis) gladiator, Tabanus glasgowi, Haemolaelaps (see Androlaelaps fahrenholzi) Glassfibre, Dermestes maculatus in, damage caused by 3057 glauca, Notonecta Glaucomys volans Orchopeas caedens on, in Massachusetts 3182

Glaucomys volans contd.	Glossina contd.	Glossina morsitans contd.
Siphonaptera on, avoidance of competition by 1514	rearing of contd. techniques for 148, 2406	salivary glands of culture-medium component for,
Glaucops hirsutus	research on, at ICIPE 15	Trypanosoma brucei 149
descriptions of 217	rural development as affecting 1874	use in culture of trypanosomes of 875
in France 217, 659	salivation in 1321	sex pheromone of, release sites of 874
parasitised by, Pteromalidae, in France	sex pheromones of 148	Trypanosoma congolense in 2162
659	sleeping sickness in absence of 644	transmission of 1870
dobator, Arrenurus	sterilisation of, γ -irradiation for 1100	wing fray in, relation of ovarian age and
dobosensilla, Walchia Globulins, blood serum	traps for 1095 Trypanosoma spp. in	group of, sex pheromones of 649
α-, in camel, effects of Haematopinus	development of 1084	Glossina morsitans centralis
tuberculatus on 1175	infectivity of 1865	in Zambia 1308, 2161
β -, in camel, effects of Haematopinus	interaction of 1866	sampling of 2161
tuberculatus on 1175	transmission of 1587, 1867, 1868, 1879 Glossina austeni	traps for 2161 Glossina morsitans morsitans
y-, in camel, effects of Haematopinus tuberculatus on 1175	feeding behaviour in, effects of bat-wing	abstinons in
in Bos taurus × B. indicus, effects of	membrane on 1099	mating inhibition by 3324
Chrysomya bezziana on 663	hemocytes in 650	receptors for 3325
in Glossina morsitans diet, uptake from	in Mozambique 1307	alighting response in, effects of model siz
mid-gut of 1092 Globulins, immune	larval development in 1319 rearing of, techniques for 871	and odour on 152 arrestants for 762
A	sex pheromone of 649	attractants for 1881
in man, depressed during scabies 1421	Glossina austeni mossurizensis (see G.	attraction of, to host odour, effects of hos
to Dermatophagoides pteronyssinus, in	austeni)	diet on 2997
man 520, 739	Glossina brevipalpis	behaviour in, effects of rearing methods on 151
to Sarcoptes scabiei, in man 2776	in Mozambique 1307 in Uganda 1877	control of
to Apis mellifera venom	in Zambia 1308	antibodies for 646
in man 2459	Trypanosoma spp. in, infectivity of 1877	insecticides for 1089, 2680
measuring of 1933	Glossina caliginea	non-target effects of 436
to Cladotanytarsus lewisi, in man	colour patterns in 2688	sterile-insect release for 1089, 1098
to Dermatophagoides, in man 2489	in Cameroon 2688 Glossina fusca, in Ivory Coast 2989	cross-breeding of normal and marker strains of 1103
to Dermatophagoides farinae, in mouse	Glossina fuscipes	dispersal of 647
1418	control of, international cooperation in	endosulfan in, effects on lipids of 2680
to Dermatophagoides pteronyssinus, in	1332	flight activity in 647
man 520, 724, 739, 1419, 1654,	in Kenya 1332	in Gambia 1317
1955, 2492 to house dust, in man 1955	in Zambia 1308 Glossina fuscipes fuscipes	in Mozambique 1307, 1861, 1862 in Tanzania 762, 2679
to house-dust mites, in man 3420	in Chad 1303	in Zambia 1308
to insect venoms, in man 1630	in Congo 1310	in Zimbabwe 152, 436, 647, 1881, 1882,
to Otodectes cynotis, in cat 296	in Ivory Coast 150	2997
to Sarcoptes scabiei, in man 1421,	in Uganda 1877	in deciduous woodland, in Zimbabwe 1882
2776 G	Trypanosoma spp. in infectivity of 1877	in riverine woodland, in Zimbabwe 1882
to Apis mellifera venom, in man 2459	transmission of 1303	inbreeding of, effects of 1880
to Dermatophagoides pteronyssinus, in	T. brucei in, transmission of 1310	larviposition in, selection of sites for
man 520, 739	wing fray in, relation of ovarian age and	2403
to Sarcoptes scabiei, in man 1421	Classina fusainas quanzansis	lipids in, transport of 2682 marker strains of 1103
M to Dermatophagoides pteronyssinus, in	Glossina fuscipes quanzensis in Congo 1310	marking of, indicator activation method
man 520	Trypanosoma brucei in, transmission of	for 2681
to Sarcoptes scabiei, in man 1421	1310	mating in 648
Glossina	Glossina longipalpis	mid-gut in, uptake of proteins from 109
behaviour in, studying of 148	in Ivory Coast 2989 in Senegal 1301	monitoring of 1861 neurosecretory system in 2998
biology of 871, 1695, 1725, 3003 blood-meals in, identifying of 3322	Glossina morsitans	on cattle, in Zimbabwe 2997
chromosomes in 148, 1995	amino acids in, absorption by mid-gut of	on man, in Gambia 1317
control of 1083, 1302, 1304, 1308, 1309,	2159	ovulation in, dependence on mating of
1311, 1333, 1694, 1695, 1886, 3003	bioclimatic limits of, predicting of 1097	2998
biological 437, 1325 bush clearance for 1331	cell cultures from 1470 control of 1306	rearing of, techniques for 871 repellents for 1881
environmental impact of, review 1334	insecticides for 1327	resting behaviour in 1862
growth regulators for 148	non-target effects of 872, 1327, 3005	seasonal abundance of 1882
insecticides for 1329, 1697, 1876,	repellents for 1087	sex pheromone of 648, 649
2989, 2993	crop in, unloading of 2160	laboratory synthesis of 2683
non-target effects of 876, 1876, 2163, 2404, 3323	Dermatophilus congolensis in, transmission of 777	receptors for 3325 responses of males to 2679
sterile-insect release for 1100	enzymes in 2995	sound production in 2999
dispersal of, by wind 1096, 1869	excretion in 2160	spermatophore in 3001
distribution maps of 1318	fat-body in, separating of uterine glands	sterilisation of, chemosterilants for 762
distribution of 3327, 3328 host location in 1863	and 3319	traps for 647, 1317, 1881 efficiency of 1883
host selection in 1864	feeding behaviour in, effects of bat-wing membrane on 1099	Trypanosoma brucei in
in Niger 1302	flight activity in, effects of temperature on	antigenic changes in 1335
in Nigeria 1309, 1322, 1329	1885	sexual forms of 3326
in Upper Volta 1304	in Botswana 872	T. congolense in
in Zambia 1333 irrigation as affecting 1874	in Ethiopia 1306 in Gambia 1305	development of 153 transmission of 2164
male inseminating potential in 1101	in Ivory Coast 150	T. vivax in, transmission of 1878, 2164
mating competitiveness in, effects of γ -	in Niger 1327	Glossina morsitans morsitans × G. m.
irradiation on 1100	larval development in 1319	centralis, male sterility in 2405
multiple mating in 1101	larval nutrition in 1094	Glossina morsitans submorsitans
on cattle, in Gambia 1299	marking of, fluorescent pigments for 1860	control of, insecticides for 1329, 1330
palaeoecology of 3006 parasites of, catalogue 437	mid-gut in 2159	drought as affecting 1300, 1301 in Chad 1303
pathogens in, modes of transmission of	water absorption by 2160	in Gambia 1298
1091	on cattle, in Gambia 1305	in Mali 2996
pathogens of, bibliography 2517	radiobiology of 1320	in Niger 1862
phagostimulants for 1471 population genetics of 1865	rearing of diets for 148	in Senegal 1300, 1301 on cattle, in Gambia 1298
rearing of 3003	techniques for 1093, 1099, 1320	resting behaviour in 1862
-		-

Subject Index		505
Glossina morsitans submorsitans contd. Trypanosoma spp. in, transmission of	Glossina palpalis gambiensis control of	α -D-Glucopyranoside, β -D-fructofuranosyl contd.
1303	insecticides for 435, 1326, 1699, 1875,	diet component for contd.
Glossina nigrofusca, in Ivory Coast 2989 Glossina nigrofusca nigrofusca	1884, 2986, 2987 sterile-insect release for 873, 1088,	Culiseta longiareolata 2364 in Anopheles stephensi diet, effects on
control of, insecticides for 2992	1323, 1324, 1699, 1875, 1884, 3004	adult weight increase and glyceride
Hexamermis glossinae in, in Ivory Coast	traps for 435, 2986, 2987	accumulation of 3257
3320 in Ivory Coast 2992, 3320	dispersal of, effects of γ-irradiation on 873	in Culex tritaeniorhynchus diet, effects on adult weight increase and glyceride
Glossina pallicera, in Ivory Coast 2989	drought as affecting 1300, 1301	accumulation of 3257
Glossina pallicera pallicera	hemocytes in 650	in insecticidal baits, enhancing toxicity
control of, insecticides for 2992 Hexamermis glossinae in, in Ivory Coast	in Gambia 1298 in Ivory Coast 150, 2986, 2987	528 in Lucilia sericata, receptors for, effects of
3320	in Mali 2996	antitubulin drugs on 461
in Ivory Coast 2992, 3320	in Senegal 1300, 1301 in Upper Volta 435, 873, 1088, 1323,	in <i>Phormia regina</i> , effects of ziziphin on receptors for 1613
Glossina pallidipes	1324, 1326, 1699, 1875, 1884, 2986,	in <i>Phormia terraenovae</i> , receptors for
alighting response in, effects of model size and odour on 152	2987, 3004	910
attractants for 1881	life-span in, effects of γ-irradiation on 873	in Psorophora ferox 1208 in Tabanid diet, effects on life-span of
attraction of, to host odour, effects of host diet on 2997	on cattle, in Gambia 1298	1921
control of	rearing of hosts for 2686, 2687	Musca autumnalis feeding responses to 474
insecticides for 1089	techniques for 1088, 1315	Phormia regina feeding responses to
international cooperation in 1332	reproductive system in, abnormalities in	1619
non-target effects of 436 dispersal of 647	2684 resting places of 1326, 1698	P. terraenovae responses to 678 α-D-Glucopyranoside, α-D-glucopyranosyl
feeding behaviour in 1313	sterilisation of, y-irradiation for 1323	(trehalose)
effects of bat-wing membrane on 1099 flight activity in 647	wing fray in, relation of ovarian age and 150	in Culex pipiens hemolymph, effects of
habitats of 3321	Glossina palpalis palpalis	Romanomermis culicivorax on 1229 in insects, review 330
in Ivory Coast 150	biology of 1872	in Periplaneta americana, regulation of
in Kenya 651, 1085, 1312, 1313, 1332, 2685, 3000, 3002, 3321	control of insecticides for 1700, 2157	utilisation of 1734 Glucose phosphate isomerase (see Isomerase,
in Mozambique 1307	non-target effects of 2157	glucose phosphate)
in Tanzania 2679 in Uganda 1877	excretion in, effects of diet on 438	D-Glucose
in Zambia 1308	fecundity in, effects of diet on 439 in Cameroon 1700	in Anopheles atroparvus, utilisation by Brugia patei of 68
in Zimbabwe 152, 436, 647, 1881, 1882,	in Ivory Coast 1872	in camel blood, effects of Haematopinus
in conifer plantations, in Kenya 3321	in Nigeria 2157 marking of, indicator activation method	in Culex pipiens hemolymph, effects of
in deciduous woodland, in Zimbabwe	for 2681	Romanomermis culicivorax on 1229
in riverine woodland, in Zimbabwe 1882	meal size in, effects of diet on 438 nutrition of 2402	in Dermacentor andersoni, developmental changes in 1400
life tables for 3000	on pig, in Cameroon 1700	in insecticidal baits, enhancing toxicity
on cattle, in Zimbabwe 2997	ovarian development in, effects of diet on	528
rearing of strains for 3000	2402 progeny weight in, effects of diet on 439	in <i>Musca domestica</i> , permeability of Malpighian tubules to 3029
techniques for 1102, 1316, 2984	radiobiology of 1320	in Phormia terraenovae, receptors for
repellents for 1881 salivary glands in, enlarged 651	rearing of diets for 1104, 1105	910 in Stomoxys calcitrans, incorporation into
seasonal abundance of 1882	techniques for 645, 1320, 2985	glycerides of, influence of blood-meals
traps for 647, 1881, 2685, 3002	reproduction in, effects of diet on 2158	on 3028
efficiency of 1883 Trypanosoma spp. in	resting places of 1700 Trypanosoma brucei in, transmission of	Musca autumnalis feeding responses to 474
detecting of 1312	1872	D-Glucose, 4-O-a-D-glucopyranosyl-, Musca
infectivity of 1877 T. brucei in, in Kenya 651, 1312	Glossina swynnertoni control of, insecticides for 1328	autumnalis feeding responses to 474 L-Glucose, in Musca domestica, permeability
T. congolense in	in Tanzania 1328	of Malpighian tubules to 3029
effects on mid-gut of 1114	Glossina tachinoides	Glucosidase, a-
in Kenya 1085, 1312 T. vivax in, in Kenya 1085	control of 1306 insecticides for 435, 1327, 1875, 2157,	in Haematobia irritans gut 3369 in Sarcophaga albiceps mid-gut 3014
wing fray in, relation of ovarian age and	2401, 2982, 2986, 2987, 2988	in Stomoxys calcitrans 3030
150 Glossina palpalis	non-target effects of 1327, 2157, 2982 traps for 435, 2986, 2987, 2988	Glucosidase, β- in Haematobia irritans gut 3369
control of, insecticides for 1697, 1698	in Chad 1303	in Haematobia irritans salivary glands
Hexamermis glossinae in, in Ivory Coast 3320	in Ethiopia 1306 in Ivory Coast 150, 2986, 2987, 2988	3369 in rice-field soils, relation of
in Congo 1310, 2994	in Mali 2996	Chironomidae and 1624
in Gambia 1305	in Niger 1327, 1861, 1862	in Stomoxys calcitrans 3030
in Ivory Coast 150, 1697, 2989, 2992, 3320	in Nigeria 2157 in Upper Volta 435, 1088, 1323, 1875,	Glucuronidase, β-, in Stomoxys calcitrans 3030
in Upper Volta 1698	1884, 2401, 2982, 2983, 2986, 2987,	L-Glutamic acid
on cattle, in Gambia 1305 on man	2988, 3004 on man, in West Africa 1873	in Aldrichina grahami, synthesis of proline from 684
in Congo 2994	on pig, in West Africa 1873	in Ĉochliomyia macellaria, decreasing
in West Africa 1873 on pig, in West Africa 1873	resting places of 1698	during anaerobic metabolism 1359 in insects, receptors in muscles for 1998
population growth in, model 1106	resting places of 1698 traps for 1861, 2983	L-Glutamine
rearing of, techniques for 1314	Trypanosoma spp. in, transmission of	in Cochliomyia macellaria, decreasing
Trypanosoma spp. in, transmission of 2994	1303 T. brucei in, transmission of 1873	during anaerobic metabolism 1359 in <i>Psoroptes cuniculi</i> 2486
T. brucei in, transmission of 1310, 1873	wing fray in, relation of ovarian age and	in Psoroptes ovis 2486
wing fray in, relation of ovarian age and	150 Glossinidae, in Nigeria 2003	Glutaraldehyde (see Pentanedial) Glutaric acid, \(\alpha \)-keto- (see Pentanedioic
group of	D-Gluconic acid, calcium salt (2:1), in man,	acid, 2-oxo-)
control of, insecticides for 1696, 2990,	for treating bite by Latrodectus mactans	Glycerides
2991 in Ivory Coast 2983	3113 α -D-Glucopyranoside, β -D-fructofuranosyl	in Anopheles stephensi, accumulation in adults of 3257
in Upper Volta 1696	(saccharose; sucrose)	in Boophilus decoloratus eggs 2210
population age composition in 1696 sex pheromones of 649	diet component for Aedes sierrensis 2100	in Culex tritaeniorhynchus, accumulation in adults of 3257
traps for 2983	Chironomus riparius 3353	in Glossina morsitans, transport of 2682

Grass, lemon (see Cymbopogon citratus)

Glycerides contd. in Glossina morsitans fat-body, synthesis during pregnancy of 1094 in Solenopsis invicta post-pharyngeal glands 2203 in Stomoxys calcitrans fat-body, incorporation of glucose into, influence of blood-meals on 3028 β-Glycerophosphatase (see Phosphatase, glycerol 2-) Glycine in Anopheles stephensi, effects of Plasmodium berghei on 1199 in Periplaneta americana, uptake from gut of 553 in Periplaneta americana diet, effects on neurosecretory system of 798 neurosecretory system of in Psoroptes cuniculi 2486 in Psoroptes ovis 2486 Glycogen in Boophilus microplus perineurium 3407 in Cimex hemipterus mycetocytes in Heterometrus fulvipes pedipalp muscles, asymmetrical metabolism of 2783 in Musca domestica eggs, effects of γirradiation on 478
in Musca domestica flight muscles, agerelated changes in 1351 in Musca domestica follicles, induction of synthesis of 475 in Periplaneta americana, effects of thermal acclimation on 1490 in *Periplaneta americana* hind-gut, regulation of 336 in Periplaneta americana nervous system 2008 in Sarcophaga ruficornis ovarioles, effects of thiourea on synthesis of 1355 Glycoproteins in Anopheles stephensi salivary glands in Blattella germanica tergal-gland secretion 784 in Cladotanytarsus lewisi, allergenicity of 2192 in Haematopota pluvialis salivary glands, sex differences in 187 Glycosidase, in Stomoxys calcitrans larvae, activity pattern of 2418 Glycyphagus destructor (see Lepidoglyphus destructor) Glycyphagus domesticus, water relations in 1969 Glycyphagus microti sp. nov., description of 1970 development in 1970 development in in USA 1970 on Microtus pinetorum, in New York State 1970 Glyptotendipes paripes control of, growth regulators for 1366, 2412 emergence in 1905 in USA 1905 Gnathamitermes tubiformans food location by in USA 2729 2729 in cattle dung, in New Mexico 2729 Gnathoneus nanus in USA 226 in poultry dung, in North Carolina 226 Gnus cholodkovskii (see Simulium cholodkovskii) Gnus decimatus (see Simulium decimatum) Gnus malyshevi (see Simulium malyshevi) Gnus rostratus (see Simulium rostratum) Goat (Capra hircus)

Amblyomma variegatum on, in Malagasy
Republic 3060 arthropod pests of, in Queensland

Babesia spp. in, in Egypt 2756 Chorioptes bovis on, in Indonesia

Cochliomyia hominivorax on, in

Netherlands Antilles 457 Cowdria ruminantium in, in Guadeloupe

Ctenocephalides canis on, effects on blood of 47

Demodex caprae on, distribution pattern

ectoparasites of, in Philippines 2813

958

Goat contd. Haemaphysalis kopetdaghica on, in Iran 241 H. punctata on, in Italy 3062 H. qinghaiensis on, in Qinghai 265 H. sulcata on, in Italy 3064 H. xinjiangensis on, in China 972 Hippobosca variegata on, in Saudi Arabia 2533 Hyalomma asiaticum on, in Iran 2211 Ixodidae on, in Egypt 2752 Ixodoidea on, in Iran 2750 Linguatula serrata on, in Spain 3117 Linognathus stenopsis on, in Mauritius 344 Oestroidea on, book 2691 Peaton virus in, antibodies to 1253 Phthiraptera on, in Afrotropical region, book 1177 Psoroptes spp. on, in Fiji 1658 P. cuniculi on, in New South Wales 3105 Raillietia manfredi on, in New South Wales 3102, 3105 Rhipicephalus guilhoni on, in Egypt 2756 R. turanicus on, in Egypt 2756 Sarcoptes scabiei on, in Indonesia 28 Simulium nigrum on, in USSR 2973 Stephanofilaria assamensis in, in Uzbekistan 1891 Theileria spp. in, in Egypt 2756 Trypanosoma spp. in, tolerance of 3327, 3328 T. congolense in, local skin reaction to 2164 T. evansi in 184 T. vivax in in lymph 1878 local skin reaction to 2164 Goat dung, Protaetia fusca in, in Bonin Islands 3382 Goeldichironomus holoprasinus control of, growth regulators for 1366, 2412 emergence in 1905 in USA 1366, 1905, 2412, 3342 Microsporidium goeldichironomi in, in Florida 3342 Golden hamster (see Hamster, golden) golovi, Tabanus Gongylonema pulchrum Aphodius obscurus, in Bulgaria A. satyrus, in Bulgaria 689 Onthophagus lemur, in Bulgaria 689 vectors of 316

Goniocotes gallinae control of, insecticides for 32, 2564 in India 32 in Nigeria 1493, 2013 in Poland 2564 on fowl in Nigeria 1493, 2013 in Poland 2564 on guineafowl, in Nigeria 1493 on poultry, in Haryana 32 survival of, away from host 2851 Goniodes gigas Goniodes gigas
in Nigeria 2013
on fowl, in Nigeria 2013
Goniodidae, on Columbiformes 1495
gossypiella, Pectinophora
grabhamii, Anopheles
gracilis, Bembix gracilis, Centruroides gracilis, Ceratozetes grahami, Aldrichina grahamii, Culicoides Grain (stored) Acarus siro in, effects on cattle of 1662 in cattle diet, effects on Musca autumnalis in dung of 2441 insecticides in, bioassay of 1455 granarius, Sitophilus granulatus, Onthophagus
Grapefruit (Citrus paradisi)
Grapefruit (stored fruit), naled in, uptake
from air of 2266
Grapevine (Vitis vinifera)
Grapevine (stored fruit), naled in, uptake
from air of 2266 Grass, barnyard (see Echinochloa crus-galli)

Grass, molasses (see Melinis minutiflora) Grasses, human hypersensitivity to 989 Grassland, Sepsidae in, in England 2456 Greece leishmaniasis in 1576 Phlebotomus papatasi in 1576 P. sergenti in 1576 Green fodders, Stomoxys calcitrans in, in Florida 3352 Greenland, mites in, in house dust 3094 greeri, Geomydoecus gregaria, Schistocerca Gregarinida book 2259 in, Leucophaea maderae, not contributing to gut proteinase 1489 gregoryi, Pandinus gregsoni, Megabothris calcarifer Grenieria (see Cnephia) grisea, Cuterebra griseicolle, Simulium griseicens, Culicoides griseicens, Psychoda grodhausi, Tanypus Gromphadorhina brunneri (see Elliptorhina brunneri) Gromphadorhina portentosa, running in, energetics of 2556 Ground squirrel, Haemaphysalis japonica on, in Maritime Territory 2734 Ground squirrel, golden-mantled (see Spermophilus lateralis) Ground squirrel, thirteen-lined (see Spermophilus tridecemlineatus)
Groundnut (Arachis hypogaea) Groundnut litter, Stomoxys calcitrans in, in USA 904 Growth rate in cattle effects of blood-sucking flies on 1521 effects of Diptera on 223 effects of Haematobia irritans on 470, 2422 effects of Hypoderma on 332 effects of Simuliidae on 1289 in fowl, effects of arthropods on 1493 in guineafowl effects of Amyrsidea powelli on effects of arthropods on 1493 Gryllodea, in Bermuda, book 792 Gryllus domesticus (see Acheta domesticus) guacangshanensis, Haematopota guadalupensis, Geomydoecus Guadeloupe (indexed under French West Indies) guangdongense, Leptotrombidium (Trombiculindus) guangdongensis, Trombiculindus (see Leptotrombidium guangdongense) Guanosine monophosphate reductase (see Reductase, guanylate) guasayana, Triatoma Guatemala Anopheles albimanus in 2127 Chrysomya albiceps in 2420 malaria in 2127 Simuliidae in, natural enemies of 144 Simulium spp. in 1585 S. horacioi in, on man 1582 guevarai, Sciuropsis guianense, Simulium guilhoni, Rhipicephalus Guinea corn (see Sorghum) Guinea-pig (Cavia cobaya) Amblyomma americanum on, feeding sites of 252, 710 Boophilus microplus on, antienzymes to 2217 Cheyletiella parasitivorax on, alopecia caused by 2774
Connecticut virus in, antibodies to 1408 Dermacentor andersoni on, immunization against 3067 diazinon in, toxicity of Glossina palpalis on 2686 Leiurus quinquestriatus venom in, effects on heart of 309 rearing of 2686 tick control on, immunization for 3390 Trixacarus caviae on alopecia caused by 1 effects of 1979, 1980

Subject Index		50
Guinea-pig contd.	Haemaphysalis concinna contd.	Haemaphysalis punctata contd.
Trixacarus caviae on contd.	on Apodemus, effects on oxygen	on birds, in German Federal Republic
hyperkeratosis caused by 1978	consumption of 1066	956
in USA 1979	on deer, in Italy 3062	on cattle, in Wales 3086
skin lesions caused by 510	oviposition in, effects of humidity on 717	on dog, in Wales 3086
4-74 in, toxicity of 1718	Haemaphysalis flava	on goat
Guinea-pig blood, diet component for,	in Japan 3085	in Iran 2750
Glossina palpalis 1104	parasitised by, Hunterellus sagarensis, in	in Italy 3062
Guineafowl (Numida meleagris)	Honshu 3085	on Oryctolagus cuniculus, in Spain 286
Amyrsidea powelli on, in Nigeria 2569	Haemaphysalis inermis, in Yugoslavia 701	on Ovis orientalis, in Iran 2750
arthropod parasites of, in Nigeria 1493	Haemaphysalis intermedia, in India 2470	on partridge, in Italy 3064
Cuclotogaster occidentalis on, in Nigeria		on sheep, in Netherlands 1410
2569	Haemaphysalis japonica	seasonal abundance of 3086
Guntheria	biology of 2734	tick-borne encephalitis, virus in, in
in Papua New Guinea 1968	habitats of 2734	
	hosts of 2734	Kirgizia 1688
taxonomy of 1968	human activity as affecting 3411	Haemaphysalis qinghaiensis
Guntheria buelowi	in USSR 2734, 3411	sp. nov., description of 265
sp. nov., description of 3426	Haemaphysalis kashmirensis	in China 265
in Papua New Guinea 3426	in Iran 2750	on goat, in Qinghai 265
on Melomys levipes, in Papua New	on goat, in Iran 2750	Haemaphysalis simplicima
Guinea 3426		sp. nov., description of 3060
on Rattus niobe, in Papua New Guinea	Haemaphysalis kopetdaghica	in Malagasy Republic 3060
3426	descriptions of 241	on Echinops telfairi, in Malagasy Republ
Guntheria pectinata	in Iran 241, 2750	3060
sp. nov., description of 3426	on goat, in Iran 241, 2750	on Setifer setosus, in Malagasy Republic
in Papua New Guinea 3426	taxonomy of 241	3060
on Rattus ruber, in Papua New Guinea	Haemaphysalis kutchensis	Haemaphysalis sulcata
3426	in India 3080	Coxiella burneti in, in Kirgizia 1688
Guntheria sabinae	in Pakistan 3080	in Iran 2750
sp. nov., description of 3426	in USSR 3080	in Italy 3064
in Papua New Guinea 3426	on Asio flammeus, in Tajikistan 3080	in USSR 1636, 1688
on Rattus niobe, in Papua New Guinea	Haemaphysalis leporispalustris	in Yugoslavia 701
3426	development in, effects of temperature on	on goat
Guntheria serrata	240	in Iran 2750
sp. nov., description of 1005	in Canada 240, 720	in Italy 3064
in Papua New Guinea 1005	in USA 492, 1155, 2465, 3145	on Ovis orientalis, in Iran 2750
on Rattus niobe, in Papua New Guinea	in Yugoslavia 701	Haemaphysalis tibetensis, in China 972
1005		
	on Sylvilagus floridanus	Haemaphysalis warburtoni, in China 972
Guntheria wauensis	in Indiana 3145	Haemaphysalis xinjiangensis
sp. nov., description of 1968	in USA 1155	sp. nov., description of 972
in Papua New Guinea 1968	resistance to 492	in China 972
on Rattus niobe, in Papua New Guinea	on Tamias striatus, in Canada 720	on goat, in Xinjiang-Uighur 972
1968	on wildlife, in Oklahoma 2465	Haematobia, on zebu, in Malaysia 2538
Guntheria weedunnarti	oviposition in, effects of temperature on	Haematobia irritans
sp. nov., description of 1422	240	blood-meals in, measuring size of 1913
in Australia 1422	survival in, effects of temperature on 240	control of 2425, 2525
on Sminthopsis leucopus, in Northern	Haemaphysalis longicornis	biological 1932
Territory 1422	activity in 2462	insecticides for 223, 470, 1367, 1915,
Guppy (see Poecilia reticulata)	behaviour in, effects of carbon dioxide on	2422, 2430, 2446, 3010
gutsevichi, Culicoides	2462	digestive enzymes in 3369
Guyana	control of 258	in Canada 1915
Simulium spp. in, on man 3318	human activity as affecting 3411	in France 223
S. incrustatum in 3317	humidity preferences in 2473	in Japan 470, 1379
guyanensis, Psorergatoides	in Australia 258, 3079	in USA 1367, 1932, 2209, 2422, 2430,
Gymnodia ruficornis, cocoon construction in	in India 3085	2525, 2699, 3010
2196	in Japan 3085	in cattle dung
Gymnopais	in USSR 3411	effects on ammonia loss of 2425
in Transbaikalia 1067	on Bos indicus \times B. taurus, resistance to	in Georgia (USA) 2699
maxillary sensilla in 3309	3079	in USA 1932
Gymnopleurus, in cattle dung, in Bulgaria	441	Malpighian tubules in, phosphate
1385	in Honshu 3085	retention in, sex differences in 671
Gyrohypnus, in dung, in USSR 1057	in New South Wales 3079	on cattle
Habronema microstoma, in, Muscidae, in	in Queensland 258	effects on growth rate of 470, 2422
Dagestan 883	on Cervus nippon, in Maritime Territory	in France 223
Habronema muscae, in, Musca domestica, in	3411	in Georgia (USA) 1367
Tamil Nadu 2715	parasitised by, Hunterellus sagarensis, in	in Japan 1379
Hadogenes bicolor, activity in, rhythm of	Honshu 3085	in Kentucky 2430
315	temperature preferences in 2473	in Ontario 1915
Haemagogus	Haemaphysalis moschisuga	in Texas 3010
in dwellings, in Brazil 2627	sp. nov., description of 265	in Wyoming 2525
on man, in Brazil 2627	in China 265	preyed on by, Solenopsis invicta, in
yellow fever, virus in, in Brazil 2627	on Moschus berezovskii, in Qinghai 265	Louisiana 2209
Haemagogus leucocelaenus, in Brazil 2627	Haemaphysalis otophila (see H. parva)	production in, effects of dung nitrogen or
Haemaphysalis	Haemaphysalis parva	2424
book 501	in Iran 2750	seasonal abundance of 1379, 2424
Congo virus in, transmission of 1945	in USSR 1060, 1636	sex pheromone of 1898
in Indonesia 925	on Mus musculus, in Crimea 1060	Stephanofilaria assamensis in, not infectiv
in Italy 3064	on Ovis orientalis, in Iran 2750	1891
Kyasanur Forest disease, virus in,	Haemaphysalis punctata	traps for 2699
transmission of 3137	Babesia major in, in UK 3398	Haematobia irritans exigua
Theileria sergenti in, transmission of 936	B. motasi in	control of 258
Haemaphysalis bispinosa, in India 2470	in Wales 2472	development in, effects of temperature on
Haemaphysalis cinnabarina punctata (see H.	transmission of 1410, 1948	3033
punctata)	habitats of 3062	in Australia 258
Haemaphysalis concinna	in German Federal Republic 956	in cattle dung, effects of moisture on
descriptions of 11	in Iran 2750	1903
embryonic development in, effects of	in Italy 3062, 3063, 3064	on cattle, in Queensland 258
humidity on 717	in Netherlands 1410	ovaries in 898
habitats of 11, 3062		puparium of, effects of dung conditions of
	in Spain 2869 in UK 2472, 3086, 3398	1903
human activity as affecting 3411		Haematobia irritans irritans
in Italy 11, 3062	in USSR 1071, 1688	
in USSR 3411	in Yugoslavia 701	antennae in, sensilla on 1607
in Yugoslavia 701	on bat, in Uzbekistan 1071	courtship in 2432

on cattle, in France 223

Haematobia thirouxi titillans in USSR 1891 Haematopota pluvialis contd. Hamster, golden contd. salivary glands in, sex differences in 187 Dipetalonema viteae in, effects of host Stephanofilaria assamensis in, in Uzbekistan 1891 seasonal abundance of 189 Haematopota qionghaiensis sp. nov., description of 215 in China 215 1656 Haematobosca stimulans in German Federal Republic 465 on cattle, in German Federal Republic Haematopota rara, in Canada 2197 465 Haematopota subcylindrica Haematopinus apri diurnal activity in 189 in German Democratic Republic 1721 on deer, in German Democratic Republic feeding behaviour in 1078 in China 215 in Czechoslovakia 189 in USSR 1078, 2694 on livestock, in Ukraine 1721 Haematopinus eurysternus biology of 2853 control of 258, 2853 in Australia 258 in Canada 1742 in New Zealand 2290 in USA 2853 1078 seasonal abundance of 189 Haematopota subirrorata sp. nov., description of 215 in China 215 Haematopota wuzhishanensis sp. nov., description of 215 in China 215 on cattle in Ontario 1742 in Queensland 258 in USA 2853 Haemogamasus, on Mus musculus, in Crimea 1060 Haematopinus longus in China 1497 Haemogamasus ambulans development in, effects of temperature on on Cervus unicolor, in China 1497 Haematopinus quadripertusus biology of 2853 control of 2853 in USA 2853 on cattle, in USA 2853 fecundity in, effects of temperature on in USSR 3389 on Rodentia, in Maritime Territory 3389 Haemogamasus hirsutus development in, effects of temperature on Haematopinus suis biology of 985 control of 985 against fecundity in, effects of temperature on insecticides for in Canada 1743 995 346, 802, 1743 Haemogamasus horridus in German Democratic Republic 802 development in, effects of temperature on in German Federal Republic 346, 1959 995 Diptera 532 in UK 985 fecundity in, effects of temperature on on pig 995 effects of 985 in USSR 1046 2057 Haemogamasus nidi in German Democratic Republic 802 in German Federal Republic 346, 1959 development in, effects of temperature on 995 in Ontario 1743 fecundity in, effects of temperature on Haematopinus suis apri (see H. apri) Haematopinus tuberculatus 995 1013 in Bulgaria 1659 control of, insecticides for 2250 in Brazil 2250 in Hungary 22 in USA 2302 in USSR 1046 resistance to, in on Asian buffalo, effects of 2250 on camel, effects on blood of 1175 on Didelphis virginiana, in Oregon 2302 Haematopota on small mammals, in Bulgaria 1659 hosts of, visual selection of 1376 in Norway 1907 in Soviet Far East 3348 in USSR 2692, 3040 in Uzbekistan 1070 Haematopota assamensis, in China 215 seasonal abundance of 1659 Haemogamasus occidentalis in USA 289 on moles, in Oregon 289 against Haemogamasus onychomydis in USA 2249 on Dipodomys ordii, in Oregon 2249 on Perognathus parvus, in Oregon 2249 Haematopota comodoliacis sp. nov., description of 17 in France 17 Haemogamasus pontiger, in Hungary 2244 Haematopota csikii Haemogamasus reidi in USA 289, 2249 distribution of 17 in France 17 on Dipodomys ordii, in Oregon 2249 on Scapanus townsendi, in Oregon 289 Rickettsia prowazekii in, not transmitted 3066 Haematopota guacangshanensis sp. nov., description of 215 in China 215 Haematopota kansuensis Haemogamasus serdjukovae in USSR 3389 descriptions of 215 in China 215 on Rodentia, in Maritime Territory 3389 Hedgehog Haematopota lancangjiangensis Haemolaelaps in Afrotropical region 3422 on Mus musculus, in Crimea sp. nov., description of 215 in China 215 1060 Haematopota pallens Haemolaelaps glasgowi (see Androlaelaps feeding behaviour in 1078 in USSR 1078, 2694 on livestock, in Ukraine 1078 Haematopota picea, in China 215 Haematopota pilosifemura fahrenholzi) auritus) Haemolaelaps ulysses, group of, taxonomy of 3103 haemorrhoidalis, Aphodius haemorrhoidalis, Cercyon haemorrhoidalis, Gasterophilus Haemosporidia, phylogeny of 2624 Heliconia aurea sp. nov., description of 215 in China 215 Haematopota pluvialis activity in 2409 control of, traps for 3338 diurnal activity in 189 in Czechoslovakia 189 in France 223, 659 in UK 3338 in USSR 2409 hagenowii, Tetrastichus hainana, Whartonia hallae, Ornithocheyletia 2362 Hallucinations, concerning noxious arthropods 1136
Halprowiae, tick lysozyme in, effects of Heliothis zea Nosema algerae in, replication of 112
Vavraia culicis in, culturing of 2891
Helminths, in, Carabidae 489
helveticus, Culicoides Hammondia, in, dog dung, in England 220 hamoni, Sergentomyia Mermithidae in, in France 659 Neoaplectana tabanivora in, infectivity of Hamster, golden (Mesocricetus auratus) Demodex aurati on, in Israel 282 Hemagglutination inhibition tests, for

D. criceti on, in Israel 282

gender on 697 Speleorodens clethrionomys on, in Sweden haranti, Culicoides Hare, Haemaphysalis japonica on, in Maritime Territory 2734 Harmaline, in Amblyomma hebraeum, ATPase inhibition by 2740 Hart Park-Flanders viruses, in, Culicidae, in Manitoba 1809 Hart Park virus, in, Culex tarsalis, in California 2081 Hastaperla, in rivers, as indicators of effects of insecticides 1292 Acari in, on rodents 922 Aedes albopictus in, on man 1796 Boydaia nigra in, on Passer 2237 Boydala nigra in, on Fasser 2257
Chrysomya megacephala in, in fowl carcasses 480
Culex quinquefasciatus in 1796
Lucilia cuprina in, in fowl carcasses 480
Musca domestica in, in poultry dung 480
M. sorbens in, in cattle dung 480 Ophthalmognathus tenorioae in, on Nycticorax 2237 Pulex simulans in 2313 haworthi, Aedes Hazel-hen (see Tetrastes bonasia) HCH (1,2,3,4,5,6-hexachlorocyclohexane) Anopheles spp. 107: A. atroparvus 75 A. culicifacies 3218 1075 Chorioptes bovis, on cattle 2761
Culex molestus 75 Mansonia annulifera, in dwellings M. uniformis, in dwellings 2057
Sarcoptes scabiei, on camel 3093
Triatominae, in dwellings 807, 1137
Wohlfahrtia magnifica, on sheep 3349
in mouse, effects on natural immunity of Anopheles stephensi, in India Chorioptes bovis, in Scotland Culex quinquefasciatus 3269 vectors 2286 with creolin 3349 with DDT Anopheles atroparvus 75 Culex molestus 75 γ-HCH (see Lindane) heaneyi, Geomydoecus
Heart failure, congestive, in cattle, caused by Trypanosoma 1299 Heartwater (see also Cowdria ruminantium) Hebecnema umbratica Hebecnema umbratica
in Bulgaria 902
in cattle farms, in Bulgaria 902
hebeiensis, Macrostylophora
hebes, Mesopsylla
hebraeum, Amblyomma
hebrideus, Aedes Territory 2734

Ixodidae on, in Iran 2211 Hedgehog, large-eared (see Hemiechinus Helichrysum angustifolium (dried flowers), Pyemotes zwoelferi in, imported into France 1967 Culex bihaicolus on, in Venezuela 2362 Culicidae in bracts of, in Venezuela 1222 Trichoprosopon digitatum on, cohorts of Wyeomyia felicia on, in Venezuela 2362 Heliothis virescens, on man, hypersensitivity to 319

identifying insects in predator guts 1483

Hemagglutinins	Heptatriacontane, 15,19,23-trimethyl-contd.	hilaris, Laelaps
in mouse, effects of organochlorine insecticides on 1013	Glossina morsitans responses to 648, 2679	hilli, Anopheles hilli, Calliphora
in Periplaneta americana serum 2561	laboratory synthesis of 2683	hilli, Hirstionyssus
in Schistocerca gregaria serum 2561	Herbicides	hingstoni, Onthophagus
hemapterus, Carnus Hematin	bioassay of, review 1455 in Culex molestus, toxicity of 3289	Hippelates apicatus, taxonomy of, transferred to Liohippelates 1832
in Aedes aegypti excreta 2076	in rice-fields, not affecting Chironomidae	Hippelates bishoppi, taxonomy of,
determination of 1564	1624	transferred to Liohippelates 1832
Hemiechinus auritus, Leishmania major in,	mosquitoes as affected by 2128	Hippelates collusor, taxonomy of,
not infective for <i>Phlebotomus papatasi</i> 2146	hermani, Argas Hermetia illucens	transferred to Liohippelates 1832 Hippelates convexus, taxonomy of,
Hemiptera	in USA 191	transferred to Apallates 1832
bacteria in, in Kirghizia 1033 Culicinomyces clavosporus in, not	in fowl dung, not affected by erythrosin B	Hippelates dissidens, taxonomy of,
pathogenic 1829	hermsi, Apallates (Hippelates)	transferred to Apallates 1832
diapause in, review 1191	hermsi, Hippelates (see Apallates hermsi)	Hippelates hermsi, taxonomy of, transferred to Apallates 1832
in Sudan 2016 in rice-fields, in California 2093	hermsi, Ornithodoros Herpetacarus pagumae	Hippelates microcentrus, taxonomy of,
on birds, in Kirghizia 1033	sp. nov., description of 2231	transferred to Apallates 1832
preyed on by, Gambusia affinis, in	in China 2231	Hippelates pallipes, taxonomy of, transferred to Liohippelates 1832
California 2093 taxonomy of 1719	on Herpetes urva, in Fujian 2231 on Paguma larvata, in Fujian 2231	Hippelates particeps, taxonomy of,
hemipterus, Cimex	Herpetacarus spinosetosus	transferred to Apallates 1832
Hemipyrellia, in Thailand 662	sp. nov., description of 2231 in China 2231	Hippelates robertsoni, taxonomy of,
Hemipyrellia fernandica Entomophthora apiculata in, in Nigeria	on Rattus fulvescens, in Fujian 2231	transferred to Liohippelates 1832 Hippobosca camelina, in Saudi Arabia
202	on Rattus nitidus, in Fujian 2231	2533
in Nigeria 202 hemiteleus, Aedes cinereus	on Rattus niviventer, in Fujian 2231	Hippobosca equina control of, insecticides for 2820
Hemlock, water (see Cicuta douglasii)	Herpetacarus tengchongensis sp. nov., description of 1667	in Indonesia 2820
Hemocyanins	in China 1667	on cattle, in Timor 2820
in Androctonus australis, subunits of 2779	on Rattus rattus, in Yunnan 1667	Hippobosca longipennis, in Saudi Arabia 2533
in Androctonus mauretanicus hemolymph	Herpetes urva, Herpetacarus pagumae on, in Fujian 2231	Hippobosca maculata (see H. variegata)
2253	hervei, Musca	Hippobosca variegata
Hemoglobin, in camel blood, effects of	hesperus, Latrodectus Heterocera, in poultry housing, in England	control of, insecticides for 2820 in Indonesia 2820
Haematopinus tuberculatus on 1175 Hemolysins	1717	in Saudi Arabia 2533
in mouse, effects of organochlorine	Heteromeles arbutifolia, insecticidal activity	in Upper Volta 644
in Stomoxys calcitrans, properties of 892	of shredded leaves of 2789 Heterometrus, on man, in India 1007	on cattle, in Timor 2820 on goat, in Saudi Arabia 2533
in Stomoxys calcitrans mid-gut 2705	Heterometrus bengalensis, ecdysone	on sheep, in Saudi Arabia 2533
Hemorrhage, in Bos taurus × B. indicus,	analogues in, toxicity of 2782	Hippoboscidae
caused by Chrysomya bezziana 663 Hemorrhagic fever, Crimean, virus (see	Heterometrus fulvipes anoxia in, tolerance to 2494	adaptive radiation in 2308 in Czechoslovakia 190
Congo virus)	enzymes in 2783	in Kazakhstan 681
Hemorrhagic fever, dengue	glycogen in, metabolism of 2783	in Mongolia 3011
in Africa, review 2956 in Malaysia 1245	venom of 2784 Heterometrus scaber, venom of, components	in Nigeria 2003 in Saudi Arabia 2533
in Thailand 82	of 3434	on birds, in USSR 1021
in West Malaysia 2130	Heteromyidae, mites on, in Oregon 2249	on Passeriformes, in New Zealand 801
rainfall and 2130 review 390, 1220	Heteroptera olfactory system in, evolution of 3132	Hipposideros galeritus, Afrolabidocarpus longipes on, in Sumatra 2484
Hemorrhagic fever, Omsk, virus, tick	on man, in central Europe 803	hipposideros, Paraperiglischrus
transmission of 3137	Heterorhabditidae, in, insects, book 1134	Hipposideros pratti, Afrolabidocarpus
Hemorrhagic fevers, viral in Africa, review 2956	Heterotylenchus autumnalis, in, Musca autumnalis, development of, effects of	vietnamensis on, in Vietnam 2484 Hipposideros turpis, Paraperiglischrus
small mammals and arthropod parasites in	host diet on 3025	hipposideros on, in Japan 505
foci of 1046	Hexachlorane (see HCH)	hippotis, Psoroptes (see P. cuniculi)
Hempa (hexamethylphosphoric triamide) in Cimex hemipterus, effects of 2300	γ-Hexachlorane (see Lindane) Hexadecanamide, N,N-dimethyl-	Hirstesia, on bat, in Uzbekistan 1071 Hirstionyssus butantanensis, in Hungary
in Periplaneta americana, effects on	against, Culex quinquefasciatus 2107	2244
ovaries of 1165 vapour pressure of 2272	formulations of, emulsifiable concentrates 2107	Hirstionyssus eusoricis in USSR 1675
hendersoni, Cheyletus	1-Hexadecanamine, N,N-dimethyl-, against,	on Sorex araneus, in USSR 1675
9-Hentriacontene, (Z)-, in Musca domestica	Psoroptes spp. 998	on Sorex minutus, in USSR 1675
cuticle 2706 HEOD (see Dieldrin)	hexagonus, Ixodes hexagonus, Punctoribates	taxonomy of, relation of <i>H. talpae</i> and 1675
Hepatitis B surface antigens	Hexamermis glossinae	Hirstionyssus hilli
Cimor hamintants exerction of 1511	sp. nov., description of 3320	in USA 2249
Cimex hemipterus, excretion of 1511 C. lectularius, persistence of 1512	Glossina nigrofusca, in Ivory Coast	on Heteromyidae, in Oregon 2249 Hirstionyssus incomptis
Hepatitis B virus, in, Cimex lectularius,	3320	in USA 2249
transmission of 803, 1512, 2006 Hepatozoon erhardovae	G. pallicera, in Ivory Coast 3320 G. palpalis, in Ivory Coast 3320	on Dipodomys ordii, in Oregon 2249 Hirstionyssus isabellinus
in	Hexamethonium (N,N,N,N',N',N'-	host preferences in 921
Clethrionomys spp., in German Federal	hexamethyl-1,6-hexanediaminium)	in Hungary 2244
Republic 2331 Siphonaptera, development of 2331	in guinea-pig, modification of effects of scorpion venom on heart by 309	in Poland 323 on Mustela, in Poland 323
Heptacosane, 4,5-dimethyl-, with 11-	1,6-Hexanediaminium, N,N,N,N',N',N'-	Hirstionyssus latiscutatus (see H.
methylnonacosane, and cis-2-octyl-3-	hexamethyl- (see Hexamethonium)	butantanensis)
tridecyloxirane, attractant for, Musca domestica 2700	1,3-Hexanediol, 2-ethyl- (see Ethyl hexanediol)	Hirstionyssus talpae, taxonomy of, relation of H. eusoricis and 1675
Heptacosane, 13-methyl-, with muscalure,	Hexanema (see Dichlofenthion)	Hirsutiella zachvatkini (see Neotrombicula
attractant for, Musca domestica 2700	Culer ovinosition responses to 1209	zachvatkini) hirsutus, Glaucops
9-Heptacosene, (Z)-, Haematobia irritans sex-pheromone component 1898	Culex oviposition responses to 1209 repellent for, Glossina spp. 1881	hirsutus, Haemogamasus
Heptagenia, in rivers, as indicators of effects	hexodontus, Aedes	hirtipes, Parasarcophaga (see Sarcophaga
of insecticides 1292 Heptanal , repellent for, <i>Glossina</i> spp. 1881	Hexokinase (see Kinase (phosphorylating), hexo-)	hirtipes) hirtipes, Prosimulium
Heptatriacontane, 15,19,23-trimethyl-	HHDN (see Aldrin)	hirtipes, Sarcophaga (Parasarcophaga)
arrestant for, Glossina morsitans 762	hieroglyphicus, Culicoides	hirtipes, Xenopsylla

in Spain 1117 in USSR 1636

Hormones

formulations of, controlled release 2829

Hirudinea, in ponds, effects of insect growth Hormones contd. Huabangsha megachela regulators on 3024 in insects, book gen. et sp. nov., description of 996 hornerae, Radfordia in China 996 Hirundinidae arthropod parasites of, in Kirghizia 1033 Hornet (see Vespa) on Mus famulus, in Yunnan 996 bacteria in, in Kirghizia 1033 horokaense, Simulium Huacho virus, in, Ornithodoros amblus, in horridus, Haemogamasus Peru 275 hirundinis, Ceratophyllus hueyi, Geomydoecus hirundinis, Crataerina (Stenepteryx) Horse (Equus caballus) Amblyomma variegatum on 3060 Human blood hirundinis, Stenepteryx (see Crataerina Babesia spp. in in South Africa 9 in Zimbabwe 941 diet component for hirundinis) Culiseta longiareolata 2364 Forcipomyia taiwana 418 Hirundo daurica, Ceratophyllus nanshanensis on, in China 819 Hirundo rustica, Hippoboscidae in nests of, Boophilus microplus on 3060 in Glossina morsitans diet, uptake from Culicoides spp. on, in New York State mid-gut of 1092 in Czechoslovakia 190 hissaricus, Tabanus
Histamine (see 1H-Imidazole-4-ethanamine) platelet aggregation in, inhibited by ectoparasites of, in Philippines 2813 Rhodnius prolixus saliva 3171 Histamine H1 receptor blockaders, in man, Epicauta lemniscata on, diagnosis of Human cadavers not affecting hypersensitivity to Triatoma infestans 3167 poisoning by 230 Calliphora nociva in, development of poisoning by 230
Gasterophilus spp. on, in Buryatia 442
G. intestinalis on, in Morocco 2166
G. nasalis on, in Morocco 2166
louping ill, virus in, infectivity of 712
Oestroidea on, book 2691
Otobius megnini on 3060
Peaton virus in, antibodies to 1253 3037 Lucilia sericata in, development of 3037 Sarcophaga froggatti in, development of Histeridae, Anoplocephala spp. in, transmission of 686 L-Histidine Trichocera saltator in, in UK 1602 Human diseases, role of blood-sucking in Aedes aegypti diet, utilisation of 2047 in Aedes togoi, utilisation by Brugia patei Peaton virus in, antibodies to 125 phenothiazine in, toxicity of 1012 arthropods in natural foci of of 68 Human feces in Anopheles atroparvus, utilisation by Dryomyza anilis in 2183 Scarabaeidae in, in Morocco 3385 Brugia patei of 68 in Latoia vivida toxin 485 Phthiraptera on, in Afrotropical region, book 1177 Psoroptes cuniculi on, in Queensland HOE 33258, in Culiseta longiareolata, humanus, Pediculus humilis, Iridomyrmex humilis, Tabanus chromosome banding pattern produced 3091 by 388
Hog (see Pig)
Holarctic region
Chaoboridae in 24
Culicidae in 1219 Ratemia asiatica on, in China 2855 Rhinoestrus purpureus on, in Buryatia Hungary
Gamasoidea in, on subterranean mammals 2244 2427 Stomoxys calcitrans on, in Brazil 1908 Tabanidae on Hypoderma spp. in, on cattle 878 Mallophaga in 2012 Siphonaptera in 2027, 2334 Holiday camps, mosquito control in 1712 defensive activity against 3034 holocyclus, Ixodes effects of host group size on 2185 in Connecticut 1921, 2443 in France 3034 in Ukraine 1078 holoprasinus, Goeldichironomus Hunterellus hookeri hominis, Dermatobia in German Federal Republic 3391 parasitising, Ixodes ricinus, in German Federal Republic 3391 hominivorax, Cochliomyia western equine encephalitis, virus in, in Utah 381 Homo sapiens (see Man) Hunterellus sagarensis in India 3085 in Japan 3085 Homo-y-linolenic acid (see 8,11,14-Horse dung Eicosatrienoic acid) Aleochara moesta in 3344 Honduras Scarabaeidae in, in Morocco 3385

Horse farms, Stomoxys calcitrans in, in Anopheles albimanus in 2127 malaria in 2127 parasitising Haemaphysalis flava, in Honshu H. longicornis, in Honshu 3085 Honey hussaini, Hyalomma huxsolli, Schoengastia diet component for Hospitals Aedes dorsalis 2052 ant control in, insect growth regulators in USA 2412, 3024
in ponds, effects of insect growth
regulators on 3024 Comperia merceti 1737 for 2726 Culicoides variipennis Blatta orientalis in, in UK Solenopsis invicta 482 Blattaria in, in England 1141 Dermatophagoides spp. in, in Uttar Pradesh 2773 hookeri, Hunterellus in sewage ponds, effects of insect growth regulators on 2412 Hoplopleura in Argentina 1475 Periplaneta americana in, in Philippines on small mammals, in Mexico 1465 1727 Hyalomma arboviruses in, transmission of 1826 Congo virus in, transmission of 1945, Hoplopleura acanthopus pest control in 1145, 1146 in Poland 323 in USSR 343, 1046, 2571 Hostels, Blatta orientalis in, in UK 3157 House dust on Mustela, in Poland allergens of 517 control of 1480 on small mammals, in USSR 2571 role of mites in 923, 1654, 1955 Dermatophilus congolensis in, Austroglycyphagus spp. in, in West Malaysia 1000 taxonomy of, characters distinguishing H. transmission of in Italy 3064
on cattle, in Nigeria 245
on livestock, in Mongolia 1480
Theileria annulata in, transmission of edentula and 343 Cheyletus tenuipilis in 300 Dermatophagoides spp. in, in Uttar Pradesh 2773 Hoplopleura affinis in USSR 2571 on small mammals, in USSR 2571 Hoplopleura edentula in USSR 343, 2571 D. farinae in in Ohio 1420 Hyalomma anatolicum on Clethrionomys glareolus, in USSR seasonal abundance of 1671 Coxiella burneti in, in Kirgizia 1688 habitats of 1072 in India 2748 in Iran 1637, 2211 in USSR 1072, 1688 343 D. pteronyssinus in estimating of 19 in Mexico 1127 on Clethrionomys rufocanus, in USSR 343 on Clethrionomys rutilus, in USSR 343 on small mammals, in USSR 2571 seasonal abundance of 1671 Mycobacterium spp. in, persistence of enzymes in, and in mites 1964 in man, hypersensitivity to 3108 mites in 517, 1479 in Denmark 280 taxonomy of, characters distinguishing H. 261 acanthopus and 343

Hoplopleura longula
in USSR 2571 on cattle, in Iran 2211 Rickettsiaceae in, in India 2748 Thogoto virus in, in Iran 1637, 2211
Wad Medani virus in, in Iran 1637, 2211 in different climates 3094 in Japan 727 in Peru 921 on small mammals, in USSR 2571 Hoplopleura pacifica Hyalomma anatolicum anatolicum in Burma 1496 Tarsonemina in, in Denmark 287 enzymes in 934 in Egypt 2752 in India 1401 on small mammals, in Burma 1496 Thyreophagus gallegoi in, in Spain 1971 Hoplopleura sciuricola in USA 1189 House-dust mites, on man, hypersensitivity to, diagnosis of 3420 life-cycle of 715 on cattle, in Karnataka 1401 seasonal abundance of 1401 House sparrow (see Passer domesticus) howardii, Orchopeas on Sciurus carolinensis, in Tennessee 1189 Howardula albopunctata sp. nov., description of 1914 taxonomy of, isoenzymes as characters for seasonal abundance of 1189 Hoplopleuridae, on small mammals, in Burma 1496 Hyalomma anatolicum excavatum enzymes in 934 in Egypt 2752, 3394 Hoplopsyllus glacialis (see Euhoplopsyllus Sepsis albopunctata, in Andhra Pradesh glacialis) 1914 in Egypt 275 in Iran 2750 S. nitens, in Andhra Pradesh 1914 life-cycle of 1914 horacioi, Simulium

5-HT (see 1H-Indol-5-ol, 3-(2-aminoethyl)-)

II	771	TT 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Hyalomma anatolicum excavatum contd.	Hyalomma truncatum	Hydatigera taeniaeformis, in, Musca
in Yugoslavia 701	in South Africa 1645	domestica, persistence of 1900
Nocardia farcinica in, transmission of	in Zimbabwe 1638	Hydrachna, in aquatic habitats, effects of
502	_	
	on cattle	pirimiphos-methyl on 2942
on cattle, in Egypt 3394	in South Africa 1645	Hydrachna conjecta
on Cervus elaphus, in Spain 1117	sweating sickness caused by 246	in USA 2046
on domestic animals, in Turkmenia 1636	preyed on by, Buphagus erythrorhynchus	parasitising, Sigara ornata, in New York
on donkey, in Egypt 3394	1643	State 2046
on Ovis orientalis, in Iran 2750	seasonal abundance of 1638	Hydrachnellae
seasonal abundance of 3394	Hyaluronidase ·	in ponds, effects of insect growth
taxonomy of, isoenzymes as characters for	in Apis mellifera venom, allergenicity of	regulators on 3024
934		
	3381	parasitising
Theileria annulata in, enzymes in 3077	in Centruroides limpidus venom 522	Simuliidae, in Ukraine 1055, 1059
Hyalomma asiaticum	Hybomitra	Simulium spp., in Ukraine 1054
anatomy of, book 719		Hydrilla, Anopheles annularis ovipositing in
in Iran 1637, 2211	feeding behaviour in 2443	water containing 2059
	hosts of, visual selection of 1376	
in USSR 1071	in Norway 1907	Hydrilla verticillata, Anopheles annularis
olfactory sensilla in 3409		ovipositing in water containing 2889
on bat, in Uzbekistan 1071	in Soviet Far East 3348	Hydrobaenus minimus (see Limnophyes
on goat, in Iran 2211	in USSR 2692, 3040	minimus)
	in Uzbekistan 1070	
sex pheromone of 2744	on cattle, in Connecticut 2443	Hydrocarbons, in Solenopsis invicta post-
Wanowrie virus in, in Iran 1637, 2211		pharyngeal glands 2203
Hyalomma asiaticum caucasicum	parasitised by, Diglochis hybomitri, in	Hydrodromidae, parasitising, Culicidae, in
in Iran 2750	USSR 156	New York State 3254
on goat, in Iran 2750	Hybomitra acuminata, in USSR 2694	
		hydroides, Prosimulium (Twinnia)
on Ovis orientalis, in Iran 2750	Hybomitra astur, in USSR 2692	hydroides, Twinnia (see Prosimulium
Hyalomma detritum	Hybomitra auripila	hydroides)
control of, acaricides for 955	descriptions of 217	Hydrolase, in Calliphora vicina hemolymph
habitats of 1072	in France 217, 659	activity pattern of 882
in India 962		
	parasitised by	Hydrolase, methenyltetrahydrofolate cyclo-
in USSR 1072, 1636	Pteromalidae, in France 659	in Aedes aegypti, properties of 838
in Yugoslavia 701	Scelionidae, in France 659	Hydromermis, in, Aedes spp., in Kazakhsta
on cattle, in Punjab 962	Hybomitra bimaculata	88
		77
on domestic animals, in Turkmenia 1636	activity in 2409	Hydrophilidae
spheroid areolar structures in 257	in USSR 2409	in cattle dung, successions of 490
Theileria annulata in, transmission of	Hybomitra ciureai	in dung, in UK 228
962	activity in 2409	seasonal abundance of 228
Hyalomma dromedarii		
	feeding behaviour in 1078	Hydroprene (ethyl $(2E, 4E)$ -3,7,11-trimethyl
aggregation pheromone in 1648	in USSR 1078, 2409, 2694	2,4-dodecadienoate)
in Egypt 2752, 3394	on livestock, in Ukraine 1078	against
on cattle, in Egypt 3394	Hybomitra difficilis, in USA 661	Culex pipiens 1754
seasonal abundance of 3394	Hybomitra distinguenda	Ixodes persulcatus 254
spotted-fever rickettsiae in, ultrastructure	in France 223	I. ricinus 254
of 932	on cattle, in France 223	Psoroptes cuniculi 2767
Hyalomma hussaini	Hybomitra erberi	in Culex pipiens, effects of 1754
in India 1401	in USSR 1024, 2694	Hydropsyche, in rivers, as indicators of
on cattle, in Karnataka 1401	on rabbit, in Ukraine 1024	effects of insecticides 1292
seasonal abundance of 1401	Hybomitra expollicata	Hydropsyche angustipennis
Hyalomma impressum	descriptions of 217	in USSR 642
enzymes in 934	in France 217	preying on, Simulium mediterraneum, in
on rabbit, immunity to 1939	Hybomitra lasiophthalma	Ukraine 642
on sheep, immunity to 1939	blood-meals in 1899	hydrosauri, Aponomma
taxonomy of, isoenzymes as characters for	daily activity in 3015	Hydrotaea irritans
934	in USA 906, 907, 1899, 2167, 2431, 3015	control of, insecticides for 3048
Hyalomma kumari	in floodplain forests, in Texas 906	Corynebacterium pyogenes in,
in Iran 2750	on cattle, distribution pattern of 1899	transmission of 890
on goat, in Iran 2750	parasites of, encapsulation of 2167	habitats of 890
Hyalomma marginatum	parasitised by	in Bulgaria 902
biology of 244	Bombyliidae, in Texas 2167	in France 223
Coxiella burneti in, in Kirgizia 1688	Macronychia spp., in Texas 907	in Irish Republic 2182
habitats of 3062	parity in 906	in Netherlands 890
in Italy 3062, 3063		
	rearing of, techniques for 2431	in UK 3048
in USSR 1688	traps for 2431	in cattle farms, in Bulgaria 902
Listeria monocytogenes in, effects on	Hybomitra montana	on cattle
respiration of 250	in France 659	in France 223
Rickettsia sibirica in, in Kirgizia 1688	parasitised by, Pteromalidae, in France	in Netherlands 890
Yersinia rodentium in, effects on	659	
		in UK 3048
respiration of 250	Hybomitra montana reinigiana, in USSR	on Cervus, in Irish Republic 2182
Hyalomma marginatum marginatum	1616	on sheep, in UK 3048
in Iran 2750	Hybomitra muehlfeldi	predators of, in Irish Republic 2182
on goat, in Iran 2750	diurnal activity in 189	Hydrotaea militaris, in China 1618
on Ovis orientalis, in Iran 2750	in Czechoslovakia 189	Hydryphantidae, parasitising, Culicidae, in
Hyalomma marginatum rufipes	seasonal abundance of 189	Quebec 2354
Anaplasma marginale in, transmission of	Hybomitra nigricornis, in USSR 2692	hygropetricus, Metriocnemus
950	Hybomitra nigricorpa, in USSR 1616	Hylemya antiqua (see Delia antiqua)
Congo virus in, replication of 2216	Hybomitra nitidifrons confiformis	Hylemya strenua
		in UK 220
in Egypt 2752	activity in 2409	
in South Africa 1645	in USSR 2409	in dog dung, in England 220
in Zimbabwe 1638	Hybomitra peculiaris, in USSR 2694	Hylomys suillus, Cratynius yunnanus on, in
on cattle, in South Africa 1645	Hybomitra shnitnikovi	China 3180
seasonal abundance of 1638	descriptions of 676	Hylopecheyla malayi
Hyalomma marginatum turanicum	in USSR 676	sp. nov., description of 2771
habitats of 1072	Hybomitra tsushimaensis	in Malaysia 2771
in Iran 2750	sp. nov., description of 3022	on Tupaia glis, in West Malaysia 2771
in USSR 1072, 1636	in Japan 3022	Hylopetes spadiceus, Cheyletus bidentatus in
on goat, in Iran 2750	on rabbit, feeding by 3022	nests of, in West Malaysia 2771
on Ovis orientalis, in Iran 2750	Hybomitra turkestanica	Hymenolepis diminuta
Hyalomma plumbeum (see H. marginatum)	in USSR 1024	in
Hyalomma plumbeum turanicum (see H.	on Capreolus capreolus, in Ukraine 1024	Ctenocephalides felis, infectivity of
marginatum turanicum)	on Marmota, in Ukraine 1024	366
Hyalomma rufipes (see H. marginatum	Hybomitra typhus, in USA 661	Tenebrio molitor
rufipes)	hybomitri, Diglochis	effects of temperature on 1390
Hyalomma savignyi, in Yugoslavia 701	Hybosoridae, in Saudi Arabia 2529	effects on water balance of 1390

lymenolepis diminuta contd.	Hypoderma bovis contd.	Idano
in contd.	in USSR 440, 1590, 1591, 2689	Culicoides va
Tribolium confusum	oenocytes in, development of 1592	Geomydoecu
effects of 1391	on cattle	Thomomy idehears Con
effects of mebendazole on 1625	antibodies to 1889	idahoensis, Geo
Xenopsylla cheopis, infectivity of 366	diagnosis of 652 effects on growth rate of 3329	IgA (see Globu IgE (see Globu
Iymenolepis nana, in, Tribolium confusum, effects of mebendazole on 1625	immunity to 440	Illinois
	in Czechoslovakia 2690	Aedes vexans
Iymenolepis uncinata, in, Silpha carinata, in Bulgaria 689	in UK 653	Chironomida
lymenoptera	in USSR 1590, 1591, 2689	Vespula gern
fenethacarb in, toxicity of 1530	on man, diagnosis of 652	illinoisensis, Ge
on man	population dynamics of 2690	illustris, Lucilia
hypersensitivity to 319	Hypoderma diana	1H-Imidazole-4
stings by 3052	in German Democratic Republic 1721	in cattle, tran
taxonomy of 1719	on deer	sites by e
venoms of, toxicity to mouse of 2205	diagnosis of 652	in cattle skin
lyperemia	in German Democratic Republic 1721	Boophilus
in Bos taurus × B. indicus, caused by	on man, diagnosis of 652	in Latoia vivi in Simuliidae
Boophilus microplus 3073	Hypoderma lineatum control of 653	cattle 12
in cattle, caused by <i>Boophilus microplus</i> 3073	insecticides for 441, 2407, 2689, 3329	Imidazolidine,
Typerglycemia, in rat, caused by malathion,	repellents for 2689	(trichlorome
effects of drugs on 750	eggs of, attachment organ of 3333	1639
Iyperkeratosis, in guinea-pig, caused by	enzymes in 877, 1593	Immune sera
Trixacarus caviae 1978	in Canada 3329	for treating S
Typerlaelaps arvalis, in Hungary 2244	in Spain 1117	1290
lyperlaelaps microti	in UK 653	to Acarus sin
in Czechoslovakia 2232	in USA 441, 2407	to ecdysteroi
on Microtus arvalis, in Czechoslovakia	in USSR 2689	to Loxosceles
2232	oenocytes in, development of 1592	to Simulium
Iyperplasia, in man, caused by Demodex	on cattle	to Tyrolichus
726	antibodies to 1889 diagnosis of 652	Immunity to Hypoderm
Iypersensitivity to Apis mellifera, in man 3383	effects on growth rate of 3329	to Ixodoidea
to Apis mellifera venom, in man 1933,	in Indiana 2407	to Ornithony
2459	in Texas 441	2764
to arthropods, in man 319, 2828	in UK 653	Immunity, natu
to Blattaria, in man 2132	in USSR 2689	organochlor
to Cheyletiella yasguri, in man 12	on Cervus elaphus, in Spain 1117	Immunization
to Cladotanytarsus lewisi, in man 1596	on man, diagnosis of 652	of cattle
to Culex quinquefasciatus, in man 2132	seasonal abundance of 2407	against Ba
to Dermatophagoides farinae, in man	Hypodermatidae	against Ba
1420, 3108	control of 2691	against Ba
to Formicidae, in man 2132	in Mongolia 3011	against Ba
to Hymenoptera, in man, diagnosis of 2455	in Nigeria 2003 on livestock, book 2691	against Co against Ixo
to Hymenoptera stings	Hypodermin-chlorophos (see Trichlorphon)	against Sin
in man 1930	Hypopygiopsis, in Thailand 662	against Th
diagnosis of 1389	Hyposensitization therapy (see	against ticl
to insect diets, in man 319	Desensitization, immunologic)	of guinea-pig
to Macrothylacia rubi, in man 690	Hypotension, in rat, caused by	andersoni
to Musca domestica, in man 2132	phospholipase A ₂ 1929	of mouse, ag
to Otodectes cynotis, in cat 296	Hypoxanthine phosphoribosyltransferase	farinae
to Triatoma infestans, in man 3167	(see Phosphoribosyltransferase,	of rabbit, aga
to Vespidae, in man 3383	hypoxanthine)	1588, 158
to Vespula, in man 1386, 1634 Iypersensitivity, delayed, to Ixodoidea, in	Hypozetes, Moniezia expansa in 2837	of rat, agains
cattle 952	Hypsophthalmus campestris, in Burundi 49 hyrcanus, Anopheles	of vertebrates
Iypersensitivity, immediate	Hystrichopsylla, taxonomy of 2580	Immunoelectro
to Boophilus microplus, in cattle 1395	Hystrichopsylla rotundisinuata	blood-meals
to Ctenocephalides felis	sp. nov., descriptions of 2580	Immunosuppres
in cat 363	hosts of 2580	Norwegian
in dog 363	in China 2580	Immunotherapy
to Ixodoidea, in cattle 952	Hystrichopsylla talpae	hypersensiti
lypersensitivity, respiratory (see	in Czechoslovakia 362	2763
Respiratory hypersensitivity)	in Hungary 2334	Impala (see Ae
Typertension	in Poland 323	impar, Walchie
in man, caused by scorpion stings 2256 in rat, caused by melittin 1929	in Citellus citellus nests, in Czechoslovakia 362	impatiens, Euco imphalum, Lept
Typoaspis	on Mustela, in Poland 323	implicatus, Aed
in rodent nests, in Transbaikalia 1032	Hystrichopsylla talpae riouxi	impressum, Hy
on Suncus murinus, in Burma 2775	descriptions of 3183	impressus, Cerc
Typoderma	in Morocco 3183	incidens, Culise
control of 1480, 2525	on Crocidura russula, in Morocco 3183	incisellus, Cera
insecticides for 878, 3330	Hystrichopsylla weida yunnanensis	incisellus, Latil
non-target effects of 3009	ssp. nov., description of 569	incisellus)
in Tadzhikistan 154	in China 569	incisilobata, Sa
on cattle	in Anourosorex squamipes nests, in	incisilobata, Th
in Hungary 878	Yunnan 569	incisilobata)
in USSR 3330	in Eothenomys miletus nests, in Yunnan	incomptis, Hirs
in Wyoming 2525 on livestock, in Mongolia 1480	569 Hystrichopsyllidge on small mammals in	incrustatum, Si India
on livestock, in Mongolia 1480 Typoderma bovis	Hystrichopsyllidae, on small mammals, in Morocco 3183	Amphipsylla
control of 440, 653	hyugaensis, Tabanus	Anopheles sp
insecticides for 1590, 1591, 2407,	ibariense, Simulium	natural en
2689, 3329	Ichneumonidae	A. balabacen
repellents for 2689	adaptive radiation in 2308	A. barbirostr
timing of 1591	preyed on by, Loxosceles reclusa, in Iowa	A. culicifacie
eggs of, attachment organ of 3333	3430	2382, 321
in Canada 3329	Ichoronyssus, on bat, in Uzbekistan 1071	natural end
in Czechoslovakia 2690	ICI-11430, against, Rhipicephalus	sporozoites
in UK 653	sanguineus, on dog 1459	A. fluviatilis

sanguineus, on dog 1459

ariipennis in, viruses in 3282 s idahoensis in, on vs 31 mydoecus alins, immune, A) ilins, immune, E) s in 2041, 2612 e in, on man 912 nanica in 2460 eomydoecus 4-ethanamine (histamine) nsported to tick attachment sosinophils 2471 n, role in resistance to s microplus of 1395 ida toxin 485 causing toxic symptoms in 1,3-bis(3-chlorophenyl)-2ethyl)-, against, Ixodes ricinus Simuliid toxicosis in cattle ro 1669 ds 787, 2173 s reclusa venom 2498 1849 casei 1669 na bovis, in cattle 440, in cattle, review 952 ssus sylviarum, in fowl ral, in mouse, effects of ine insecticides on 1013 besia 1938 besia bigemina besia bovis 948 besia divergens 946 owdria ruminantium 945 odoidea 952 nuliidae 1290 eileria annulata 944 ks 714 , against Dermacentor 3067 ainst Dermatophagoides 1418 ainst Dermatobia hominis 39, 3334 st Dermacentor variabilis against Ixodidae 3390 phoresis, for identifying mite 1954 ssion, in man, relation of scabies and 291 for treatment of vity to house-dust mites epyceros melampus) ella oila totrombidium les (see A. leucomelas) alomma cvon tozetes (Latilamellobates) lamellobates (see Ceratozetes rcophaga (Thyrsocnema) yrsocnema (see Sarcophaga stionyssus imulium spp. in, on Rodentia 3186 op. in 2054, 2372 emies of 2622 sis in 624 is in, viruses in 2620 s in 81, 103, 572, 607, natural enemies of 609 sporozoites in 3222

A. fluviatilis in 3270

India contd.	1H-Indole, Cochliomyia hominivorax	Insect growth regulators contd.
Anopheles contd. A. hyrcanus in, viruses in 2620	responses to 1896 1H-Indol-5-ol, 3-(2-aminoethyl)- (5-HT; 5-	substances tested as:
A. stephensi in 2373	hydroxytryptamine; serotonin)	aryl terpenoid ethers 1762 benzoylureas 1449
A. sundaicus in, on man 2058	nydronyn y prannine, serotomny	cholesterol-synthesis inhibitors 804
Blattaria in, bacteria in 795	in Nauphoeta cinerea, effects on salivary	cyanamide 1372
Boophilus microplus in, on cattle 2746	glands of 333	ethanethioamide 3356
Cimex lectularius in 2562	in Tabanus proximus, effects on oviduct	juvabione analogues 1986
in animal housing 2562	contractions of 3341	pine resin 1011
Crimean hemorrhagic fever in 1945 Ctenocephalides canis in, rickettsiae in	Indonesia Aedes aegypti in 1555	plant oils 2879 spruce resin 1011
2343	A. albopictus in 1556	thiirane analogues of oxirane-containing
Culex spp. in	Afrolabidocarpus longipes in, on	growth regulators 1988
natural enemies of 2622	Hipposideros 2484	Insecticide resistance
on fowl 573	Anopheles spp. in 2067	in Culicidae 2633 not affecting susceptibility to <i>Bacillus</i>
C. quinquefasciatus in 102, 606, 608,	A. aconitus in 2127	thuringiensis 2924
2600, 3223 nematodes in 2599, 2888	A. koliensis in, sporozoites in 1776 A. punctulatus in, sporozoites in 1776	in vectors 2286
C. tritaeniorhynchus in 1557	A. subpictus in 1777	management of 1683 review 1683
C. vishnui in, viruses in 2620, 3276	A. sundaicus in 1554, 2127	Insecticides
C. whitmorei in, viruses in 3276	Argas spp. in 2807	aerosols, model for quantitative efficiency
Culicidae in 2623, 2640, 3275	Blankaartia dohanyi in, on Egretta 981	of 1218
Dermatophagoides farinae in 2773 D. pteronyssinus in 2773	Culicidae in 1777 Diptera in, in zoological gardens 3189	bioassay of, review 1455 book 2262, 2787
Diptera in, in zoological gardens 3189	ectoparasites in 2802	determining susceptibility of Culicidae to
Formicidae in, bacteria in 795	Hippobosca spp. in, on cattle 2820	2645, 3219, 3220
Goniocotes gallinae in, on poultry 32	Ixodidae in 925	determining susceptibility of Simuliidae to
Hyalomma anatolicum in, rickettsiae in 2748	Ixodoidea in, on cattle 2820	2675 formulations of
H. detritum in, on cattle 962	Leptotrombidium arenicola in on rodents 2810	controlled release 2829
insect taxonomy in 14	rickettsiae in 2810	microencapsulated 1733
Ixodidae in, on cattle 1401	L. deliense in, on Rattus 1961, 1963	in arthropods, penetration of cuticle by
leishmaniasis in 1260, 1261 malaria in 2058, 2372, 2373, 3217	L. fletcheri in, on Rattus 1961 malaria in 2127	3131 in rice-fields, not affecting Chironomidae
Mansonia annulifera in 102, 2057	mites in, on domestic animals 2806	1624
M. uniformis in 2057	Neopsylla sondaica in 565, 1190	insect pharmacokinetics of, model 2788
Meloidae in 227	on small mammals 817	microbial, registration of 1540
Menopon gallinae in, on poultry 32 mosquito control in 2054	Ornithodoros spp. in 2807 Sarcophagidae in 3337	mobile mist generator 3351 organophosphate
Musca spp. in, in dwellings 1595	Stivalius cognatus in 565, 1190	delayed neurotoxicity of, review 3135
M. domestica in 2452	on Rattus 3188	ophthalmological effects of 3128
in cattle farms 3018	on Rodentia 2819	screening of, against Musca domestica
natural enemies of 1357 nematodes in 2715	on small mammals 817 Stomoxys spp. in, on cattle 2820	1682 substances tested as:
Nycteribiidae in, on bats 2697	vector-borne diseases in 2802	Acorus calamus extracts 1561
Onthophagus subansiriensis in, in cattle	vector research in 2801	alkanamides 2106, 2263
dung 1629	Whartonia kulumadouensis in, on	alkyl phenyl (dichloromethyl)phosphon-
Periplaneta americana in, natural enemies of 793	Dobsonia 2235 W. teongwahi in, on bats 730	ates 2506 alkyl phenyl ketone oxime <i>O</i> -benzyl
Phlebotominae in 1261, 1262, 1265, 1267	Xenopsylla cheopis in 565, 1190	ethers 1444
Phlebotomus argentipes in 1260, 1263,	on Rattus 3188	amidinohydrazones 759
2662 on man 1845	on Rodentia 2819 on small mammals 817	antibiotics 1056
P. papatasi in 1263, 2662	Indoplanorbis exustus, for controlling scum	aquatic-plant extracts 2355 4-aryl-3-naphthylimino-5-imino-1,2,4-
Rhipicephalus spp. in, rickettsiae in 2748	on mosquito-rearing water 2059	thiadiazolidines 2504
R. sanguineus in, rickettsiae in 2470	indosinica, Javanisca	avermectins 346, 2433
Sarcoptes scabiei in on Asian Buffalo 3417	inermis, Gasterophilus inermis, Haemaphysalis	Azadirachta indica extracts 1561, 3216 aziridine analogues of pyrethroids
on camel 3093	Infectious disease, eradication of 2285	2264
on man 3417	infestans, Triatoma	Blumea extracts 2056
Scarabaeidae in 2724	Inflammation, in man, caused by	citral 3124 2-(dialkylamino)-4-nitrophenyl
Scorpiones in, on man 1007 Sepsis albopunctata in, natural enemies of	Ornithodoros amblus 275 infrequens, Thermocyclops	carbamates 2507
1914	ingrami, Sergentomyia	Diels-Alder adducts of fulvenes and
S. nitens in, natural enemies of 1914	Inkoo virus, in, Aedes albopictus, persistent	halogenated dienes 749
Sergentomyia spp. in, flagellates in 1266 S. baghdadis in, on man 1260	infection with 1839 Inokosterone (see Cholest-7-en-6-one,	DOPA decarboxylase inhibitors 1382 fenvalerate isosteres 1985
S. shorttii in 1264	2,3,14,20,22,26-hexahydroxy-,	fluorinated pyrethroids 1439
on man 1260	$(2\beta,3\beta,5\beta,22R)$ -)	furocoumarins 317, 2796
Siphonaptera in, research on 2337	inornata, Culiseta	garlic extracts 2792
Streblidae in, on bats 2697 tick taxonomy in 705	inornatipennis, Culicoides Inosine kinase (see Kinase	Heteromeles arbutifolia shredded leaves 2789
Trombiculidae in, rickettsiae in 3090	(phosphorylating), inosine)	mucilaginous seeds 2601
Indian subregion, Dirhinini in 3056	myo-Inositol, in Dermacentor andersoni,	1-naphthylamidine-1-arylthiocarbamide
Indiana Andre atronalnus in in tures 3251	Insect collections, type specimens in New	dihydrochlorides 2504 Ocimum sanctum extracts 1561
Aedes atropalpus in, in tyres 3251 A. triseriatus in 2902, 3280	York State Museum 2276	optically-active phenylphosphonothio-
viruses in 2900	Insect diets, human hypersensitivity to 319	ates 1450
A. trivittatus in, viruses in 2900	Insect growth regulators	N-phenylsulfonyl derivatives of
A. vexans in 2040 Culex spp. in, viruses in 2900	bioassay of, review 1455 book 2262	carbofuran and propoxur 2265 picrotoxinin analogues 2261
C. pipiens in 1791, 2040	formulations of, controlled release 2829	plant oils 2879
C. restuans in 2901	in Culicidae, determining susceptibility to	pyrethroids 1438
Culicidae in 1789, 1790 Hypoderma lineatum in, on cattle 2407	2890 in insects	pyrethroids not containing cyclopropane ring 1442
Musca domestica in, in fowl dung 3012	developmental responses to 2834	pyrethroids with acyclic carboxylic
Sylvilagus floridanus in, ectoparasites of	effects of, review 3150	acids 2508
3145 Trambigulidae in on mammals 1966	in Rhodnius prolixus, effects on follicle	pyrethroids with heterocyclic alcohols
Trombiculidae in, on mammals 1966 Vespula germanica in 2460	extracellular spaces of 1499 insect control using, review 2838	2502 pyrethroids with oxime linkage 1446
indica, Ascoschoengastia	resistance to, review 1683	Tagetes erecta extracts 3127
indica, Sergentomyia	specifications for 526	T. patula extracts 3127

Irrigation contd.

```
Insecticides contd.
                                                                                      intermedia, Lutzomyia (Psychodopygus)
     substances tested as: contd.
                                                                                      intermedia, Wohlfahrtia
                                                                                                                                                                               mosquito breeding sites as affected by
                                                                                      intermedium, Leptotrombidium
                                                                                                                                                                                     852
         1,2,4-triazole derivatives 311
                                                                                      intermedius, Psychodopygus (see Lutzomyia
                                                                                                                                                                               of rice-fields
         volcanic ash 3126
                                                                                                                                                                                   effects on Culex tarsalis of 2115
     use of, prodigal or precise, review 760
                                                                                            intermedia)
                                                                                      interpunctella, Plodia
                                                                                                                                                                                   role in fly control of 532
 Insectivora
                                                                                                                                                                               trypanosomiasis as affected by
                                                                                      intestinalis, Gasterophilus
     arboviruses in, in Spain 2233
                                                                                     Intestinans, Aedes
Inulin, in Musca domestica, permeability of
Malpighian tubules to 3029
Invertase (see Fructofuranosidase, β-)
Invertebrates, pathogens of, role in
population dynamics of 2839
inviteta, Solenopsis
     Trombiculidae on, in Indiana 1966
                                                                                                                                                                           Irrigation canals
                                                                                                                                                                               Culex tarsalis in, in California 2345
                                                                                                                                                                               weed control in, role in mosquito control
of 2345
    acetylcholine receptors in 1159
asymmetrical competition in 2282
behaviour in, book 535
blood-feeding in, evolution of 1170
book 540, 1725, 2823
circulatory system in, terminology for
                                                                                                                                                                           Irrigation systems
                                                                                                                                                                               mosquito control in, biological 3272
                                                                                                                                                                                weed control in, non-target effects of
                                                                                      invisitata, Schoengastia
Iodofenphos (O-(2,5-dichloro-4-iodophenyl)
                                                                                                                                                                           3272
irritans, Haematobia (Lyperosia)
irritans, Hydrotaea
irritans, Lyperosia (see Haematobia irritans)
irritans, Pulex
isabellinus, Hirstionyssus
Isathrin (see Bioresmethrin)
Ischnocera, on vertebrates, in Afrotropical
region, book 1177
Ischnosyllidae combs in functions of
          2284
    common names of
in Australia 1454
in German Federal Republic 545
cultures of, catalogue 1999
cuticle in 1159
                                                                                            O,O-dimethyl phosphorothioate)
                                                                                              Alphitobius diaperinus, in dwellings
                                                                                                   486
                                                                                              Carcinops pumilio, in dwellings 486
    techniques, book 3131
cytogenetics of, book 1995
diapause in, review 1191
ecdysis in 1159
                                                                                              Dermestes maculatus
                                                                                              in dwellings 486
in poultry housing
Musca domestica 773
Pediculus capitis 345
                                                                                                                                                                           Ischnopsyllidae, combs in, functions of
                                                                                                                                                                                 2309
                                                                                                                                                                           Ischyropoda armatus
in USA 2249
     ecology of, book 3146
     ectoparasitic, sex ratio in 2281 eggs of, book 2280
                                                                                          on building materials, persistence of 203,
                                                                                                                                                                               on Heteromyidae, in Oregon 2249
                                                                                          WHO data sheet on 3120
                                                                                                                                                                           Ischyropoda furmani
in USA 2249
     endocrinology of, conference 2834
    excretory system in 2279
genitalia in, PVC vials for 1017
heat production and motor activity in
1027
                                                                                      ioffi, Catallagia
                                                                                                                                                                           on Heteromyidae, in Oregon 2249

Isfahan virus, in, Phlebotomus papatasi, in
Turkmenia 3307

Isobenzan (1,3,4,5,6,7,8,8-octachloro-
1,3,3a,4,7,7a-hexahydro-4,7-
                                                                                      Iowa
                                                                                      Loxosceles reclusa in 3430

Psorophora cyanescens in 385

Trixacarus caviae in, on guinea-pig 1978

Ursicoptes procyoni in, on Procyon 737

Ipomoea reptans, Anopheles spp. associated
     hemocytes in, book 544
hemolymph in, staining smears of 2513
hermaphroditism in 549
                                                                                                                                                                                 methanoisobenzofuran)
     identification of, reference guide 538
                                                                                            with, in Irian Jaya 1776
                                                                                                                                                                               against
                                                                                                                                                                                   Psoroptes cuniculi 2487
P. ovis 2487
     in Australia, book 3151
                                                                                      ipsilon, Agrotis
                                                                                      Iran
     intercellular junctions in
                                                 1159
                                                                                                                                                                           | Isobutyric acid (see Propanoic acid, 2-methyl-)
| Isodrin ((1α,4α,4αβ,5β,8β,8αβ)-
| 1,2,3,4,10,10-hexachloro-1,4,4α,5,8,8α-
                                                                                         Anopheles maculipennis in 2911
A. sacharovi in 2127
A. stephensi in 2127, 2912
Argas vulgaris in, viruses in 2211, 2758
Haemaphysalis kopetdaghica in, on goat
    juvenile hormones in
    regulation of, review 3134
review 3150
light polarisation analysis in, review
2830
                                                                                                                                                                                 hexahydro-1,4:5,8-dimethanonaphthalene)
     medically-important, in Mauritius 3141
                                                                                                                                                                               against
    morphological terms 2827
morphology of, book 2512
                                                                                                                                                                                   Psoroptes cuniculi 2487
P. ovis 2487
                                                                                          Hyalomma anatolicum in, viruses in
                                                                                                1637, 2211
                                                                                                                                                                           Isogenus, in rivers, as indicators of effects of insecticides 1292
    nervous system in
                                                                                          H. asiaticum in, viruses in 1637, 2211
                                                                                         Ixodoidea in
on goat 2750
on Ovis orientalis 2750
        amines in 1159
        research techniques, book 3143
                                                                                                                                                                           L-Isoleucine
    neurohormones in, research techniques,
book 3144
                                                                                                                                                                               in Aedes togoi, utilisation by Brugia patei of 68
                                                                                         Linognathus spp. in, on sheep 503
malaria in 2127
Nosopsyllus iranus in, bacteria in 364
                                                                                                                                                                               on 100

In Anopheles atroparvus, utilisation by Brugia patei of 68

In Anopheles stephensi, effects of Plasmodium berghei on 1199
    nutrition of, conference 2834 olfactory system in 537, 541
    on game animals, in Africa, bibliography
                                                                                          Ornithodoros lahorensis in, viruses in
                                                                                                1637, 2211
    on man, hypersensitivity to 2828
pathogens of, role in population dynamics
of 2839
                                                                                      Psoroptes ovis in, on sheep 503
Xenopsylla conformis in, bacteria in 364
iranus, Nosopsyllus
                                                                                                                                                                           Isomalathion (see Butanedioic acid,
                                                                                                                                                                                 [[methoxy(methylthio)phosphinyl]thio]-,
                                                                                                                                                                           diethyl ester)

Isomerase, glucose phosphate
in Aedes togoi, genetics of 3274
in Phlebotominae, use as taxonomic character of 2967
     pesticides in
    pesticides in
effects on nervous system of 329
penetration of 2503
pheromones in, review 1716
photoperiodism in, review 2278
phylogeny of, book 2511
physiology of, book 1685
problems of observing living 780
Protozoa in, review 3136
radiation techniques with 2825
receptors in, conference 1998
                                                                                         Anopheles pulcherrimus in 2917
A. sacharovi in 2127, 2917
A. stephensi in 2127, 2917
                                                                                         arthropods of medical importance in 3142
                                                                                                                                                                               isoenzymes
in Culex ocossa 2923
                                                                                                                                                                                   in Culex panocossa 2923
                                                                                         arthropods of veterinary importance in
                                                                                               3142
                                                                                                                                                                                   in Hyalomma, use in taxonomy of 934
                                                                                          malaria in 2127
                                                                                                                                                                                   in Triatoma infestans 41
                                                                                      Iridomyrmex humilis, in Australia 533
                                                                                                                                                                           Isomermis, in, Simuliidae, in Guatemala
radiation techniques with 282 receptors in, conference 1998 relaxing of 2515 temperature sensors in 389 tracheoles in, review 2835 trehalose in, review 330 vision in, book 2004

Insects as food 1623 insidiosus, Orius insignis, Myodopsylla insignustus. Culicoides
                                                                                                                                                                                 144
                                                                                      Iridoviridae
                                                                                                                                                                           Isomermis lairdi
                                                                                                                                                                               development in 145
                                                                                             Aedes stramineus, histopathology of
                                                                                                                                                                               in, Simulium spp., in Ivory Coast 145 sex ratio in 145
                                                                                                   3288
                                                                                             A. taeniorhynchus, site of entry of
                                                                                                                                                                                WHO data sheet 434
                                                                                                   1819
                                                                                              Culicidae
                                                                                                                                                                           Isonipecotic acid (see 4-Piperidinecarboxylic
                                                                                                 in Ukraine 102
in USSR 1038
                                                                                                                       1025
                                                                                                                                                                                 acid)
                                                                                                                                                                           Isoodon macrourus
insinuatus, Culicoides
insperata, Stenoponia tripectinata
                                                                                              invertebrates, review 525
                                                                                                                                                                               Echinonema cinctum in 692
                                                                                                                                                                               Schoengastia bicoxalae on, in Papua New Guinea 3426
                                                                                             Simuliidae, in Guatemala 144
Insulin, in Boettcherisca peregrina,
suppressing growth of cell lines
integella, Rhadinopsylla
Integrated control
                                                                                      iriomotensis, Aedes
                                                                                                                                                                          Guinea 3426

Isoperla, in rivers, as indicators of effects of insecticides 1292

Isopimpinellin (see 7H-Furo[3,2-g][1]benzopyran-7-one, 4,9-dimethoxy-)

Isopoda, on Ecklonia, development of 2439

Isoptera, in Bermuda, book 792

Isospora, in, dog dung, in England 220

3(2H)-Isothiazolone, 5-(aminomethyl)-, in Periplaneta americana, effects on central
                                                               886
                                                                                      Irish Republic
                                                                                          Aculeata in 691
                                                                                         cattle-dung fertilizer in, arthropod fauna of 324
    of arthropods
Aedes spp., in wildlife areas 2121
Boophilus microplus 1124
Culicidae 3203
Glossina spp. 1325
G. morsitans 1089
G. palpalis 1884
Stomovy calcitrans 1090
                                                                                         Hydrotaea irritans in, natural enemies of
                                                                                               2182
                                                                                         Ixodes ricinus in, on cattle 1635
Mesostigmata in 302
                                                                                      Iron, in Simulium breeding water 2666
                                                                                                                                                                                 Periplaneta americana, effects on central
                                                                                      Irrigation
                                                                                                                                                                                 neurons of 2842
Stomoxys calcitrans intermedia, Haemaphysalis
                                             1090
                                                                                         Glossina as affected by 1874 malaria and 3217
                                                                                                                                                                           Isovaleric acid (see Butanoic acid, 3-methyl-)
```

Isoxanthopterin (see 4,7(1H,8H)-	Ixodes cavipalpus	Ixodes persulcatus contd.
Pteridinedione, 2-amino-)	in South Africa 1645	activation of contd.
3(2H)-Isoxazolone, 5-(aminomethyl)-, in	on cattle, in South Africa 1645	effects of temperature on 2731
Periplaneta americana, effects on central	Ixodes cookei	aggregation pheromone in 721
neurons of 2842	in USA 1398, 1408, 2465	body size in 708
3(2H)-Isoxazolone, 5-(aminomethyl)dihydro-,	on domestic animals, in Connecticut	control of
in Periplaneta americana, effects on	1398	acaricides for 716, 977
central neurons of 2842	on man, in Connecticut 1398	growth regulators for 254
Israel	on wildlife, in Oklahoma 2465	recovery from 1035, 1036
Cheyletus tenuipilis in, in house dust 300	Ixodes dammini	embryonic development in, effects of
Demodex aurati in, on golden hamster	Babesia microti in	humidity on 717
282	in Massachusetts 1651	human activity as affecting 3411
D. criceti in, on golden hamster 282	transmission of 3397	in USSR 493, 708, 716, 977, 1035, 103
Ornithonyssus sylviarum in, on poultry	in USA 248, 269, 1398, 1408, 1651	1044, 1688, 1934, 2734, 3083, 3389,
290	Lyme arthritis and 269	3399, 3411
Scorpiones in 1981	on dog, in Connecticut 1398	in Yugoslavia 701
Italy	on man	neurosecretory system in
Aedes detritus in, natural enemies of	in Connecticut 1398	effects of delayed insemination on 97
2937 Anopheles labranchiae in 2128	in USA 269	effects of feeding on 722
A. sacharovi in 2128	on Odocoileus virginianus, in Connecticut 248	olfactory sensilla in 3409 on Apodemus, effects on oxygen
A. superpictus in 770	on Peromyscus leucopus	consumption of 1066
Cephenemyia stimulator in, on Capreolus	in Connecticut 248	on Apodemus sylvaticus, no resistance to
10	in Massachusetts 1651	1039
Cheyletiella yasguri in, on dog 12	on Tamias striatus, in Connecticut 248	on Clethrionomys rutilus, encounter rate
Culex pipiens in 772	seasonal abundance of 248	of 1044
Haemaphysalis concinna in 11	Ixodes dentatus	on Microtus arvalis, no resistance to
Ixodidae in 3062	Connecticut virus in, in Connecticut	1039
Ixodoidea in 3064	1408	on Rodentia
malaria in 2128	in USA 1155, 1408, 2465, 3145	in Maritime Territory 3389
Musca domestica in 657, 773	on Sylvilagus floridanus	in Siberia 3083
Pediculus capitis in, on man 768, 2014,	in Connecticut 1408	oviposition in, effects of humidity on 7
2570	in Indiana 3145	physiological age of, seasonal changes in
Phlebotominae in 2967	in USA 1155	1934
in animal housing 764	on wildlife, in Oklahoma 2465	population dynamics of 1035, 1036
Psychodidae in 896	Ixodes donarthuri	model 2735
Rhipicephalus sanguineus in, on dog	sp. nov., description of 1404	population spatial structure in 977
3063 Salamywidaa in 0	in Mozambique 1404	seasonal abundance of 1934
Sciomyzidae in 9 Simuliidae in 2392	on <i>Redunca arundinum</i> , in Mozambique 1404	surveillance for 493
Siphonaptera in 2029	on Sylvicapra grimmia, in Mozambique	tick-borne encephalitis virus in
Tabanus darimonti in 3368	1404	in Kirgizia 1688
Itaqui virus, in, Culex quinquefasciatus,	Ixodes festai	infectivity of 2732
infectivity of 1524	in German Federal Republic 956	transmission of 716, 1946, 2733
Itching (see Pruritus)	on birds, in German Federal Republic	Ixodes pomerantzevi, on Apodemus, effects
ivashentzovi, Simulium equinum	956	on oxygen consumption of 1066
ivashentzovi, Wilhelmia equina (see	Ixodes galapagoensis	Ixodes redikorzevi
Simulium equinum ivashentzovi)	sp. nov., description of 1949	in USSR 1060
Ivermectin, against, Musca autumnalis, in	in Galapagos Islands 1949	on Mus musculus, in Crimea 1060
cattle dung 2433	on Oryzomys bauri, in Galapagos Islands	Ixodes ricinus
Ivory Coast	1949	aggregation pheromone in 721
Glossina spp. in 150, 1697, 2983, 2989,	Ixodes hexagonus	Babesia divergens in
2990, 2991, 2993	in Italy 3064	in UK 3398
natural enemies of 3320	on cat, in Italy 3064	transmission of 277, 946, 1635, 2212
G. nigrofusca in 2992	Ixodes holocyclus control of 258	Bhanja virus in, transmission of 2233 biology of 233
G. pallicera in 2992 G. palpalis in 1872, 2986, 2987	humidity preferences in 2473	control of
G. tachinoides in 2986, 2987, 2988	in Australia 258	acaricides for 253, 1639, 3048
Haemolaelaps spp. in 3422	on cattle, in Queensland 258	growth regulators for 254
Simulium spp. in 641, 1704, 2676, 2677,	Queensland tick typhus, causal agent in,	immunization for 3390
2975	transmission of 3137	repellents for 928
natural enemies of 145, 429	temperature preferences in 2473	timing of 1639
S. damnosum in 1691	Ixodes laguri	Coxiella burneti in, in Lithuania 3399
S. sanctipauli in 433, 2678	in Czechoslovakia 239	Cytoecetes phagocytophila in, in ovaries
natural enemies of 1849	in Citellus citellus nests, development of	1396
S. soubrense in 433, 2678	239	development in 924
natural enemies of 1849	Ixodes lividus in USSR 3083	Ehrlichia phagocytophila in, transmission
sleeping sickness in 1872 Ixodes		of 946 habitats of 3062, 3398
attachment in, stimuli for 1405	in Riparia riparia nests, in Siberia 3083 Ixodes marxi	in Czechoslovakia 924, 1639, 3069
Babesia spp. in, transmission of 3137	in Canada 720	in France 2743, 3392
Congo virus in, transmission of 1945	on Sorex cinereus, in Canada 720	in German Democratic Republic 1721
in Indonesia 925	Ixodes minor	in German Federal Republic 233, 956,
in Italy 3064	in USA 2001	3391
Powassan virus in, transmission of 3137	on Colinus virginianus, in USA 2001	in Iran 2750
Russian spring-summer encephalitis, virus	Ixodes muris	in Irish Republic 1635
in, transmission of 3137	in Canada 720	in Italy 2233, 3062, 3064
tick-borne encephalitis, virus in,	on Clethrionomys gapperi, in Canada	in Poland 323
transmission of 1946	720	in Spain 1117, 2233
Ixodes angustus	Ixodes pacificus Pahoria microti in transmission of 242	in UK 946, 2212, 3048, 3086, 3398
in USA 2302	Babesia microti in, transmission of 242	in USSR 253, 1071, 3399
on Didelphis virginiana, in Oregon 2302	in USA 269, 1650, 3081	in Yugoslavia 237, 701
Ixodes apronophorus in USSR 3083	Lyme arthritis and 269 on <i>Reithrodontomys megalotis</i> , paralysis	louping ill, virus in, infectivity of 712 mapping of, with vegetation maps 2743
on Rodentia, in Siberia 3083	caused by 1650	on Apodemus, effects on oxygen
Ixodes arboricola	Spiroplasmataceae in, in Oregon 3081	consumption of 1066
in German Federal Republic 956	Ixodes pari	on bat, in Uzbekistan 1071
on birds, in German Federal Republic	in German Federal Republic 956	on birds, in German Federal Republic
956	on birds, in German Federal Republic	956
Ixodes calcarhebes	956	on cat, in Italy 3064
sp. nov., description of 249	Ixodes persulcatus	on cattle
in Zambia 249	activation of	in Irish Republic 1635
on Praomys natalensis, in Zambia 249	effects of diapause on 2731	in Northern Ireland 946, 2212

Ixodes ricinus contd.	Ixodidae contd.	Japan contd.
on cattle contd.	taxonomy of, larval characters in 925	Culicidae in 603, 1217, 3271
in USSR 253	tick-borne encephalitis, virus in,	Dermoglyphidae in, on budgerigar 288 Diptera in, bacteria in 880
on Cervus elaphus, in Spain 1117 on Clethrionomys glareolus, in France	transmission of 3413 water relations in 926	Haemaphysalis flava in, natural enemies
3392	Ixodides, on small mammals, in	of 3085
on deer, in German Democratic Republic	Czechoslovakia 933	H. longicornis in, natural enemies of
1721	Ixodoidea	3085
on Mustela, in Poland 323	acaricide resistance in 2286	Haematobia irritans in, on cattle 470
on sheep, in UK 3048	animal diseases transmitted by 779	Hybomitra tsushimaensis in 3022
parasitised by, Hunterellus hookeri, in	Babesia spp. in, transmission of 3396	mites in, in house dust 727
German Federal Republic 3391	control of 1701, 2525	Muscidae in, on cattle 1379
population spatial structure in 977	acaricides for 320, 1888, 2820	Orthohalarachne diminuata in, on zoo se lion 1423
Rickettsia slovaca in, in Lithuania 3399 seasonal abundance of 1635, 3086	development in, relation of host development and 957	Paraperiglischrus spp. in, on bats 505
spotted-fever rickettsiae in, sexual	diseases transmitted by 924	Prosimulium karibaense in, on man 15
transmission of 2741	in Benelux countries, bibliography	Protaetia fusca in, in goat dung 3382
tick-borne encephalitis	2751	Scathophaga spp. in, in dung 3023
virus in	in modern society, review 3137	Sepsidae in 2419
in Czechoslovakia 3069	in Benelux countries, bibliography 2751	Simuliidae in 2665
strains of 3069	in Ethiopia, book 951 in Morocco 3403	Tabanus spp. in 1373 Trombiculidae in 2230
transmission of 233, 1946, 2233, 2733, 3137	in Nigeria 2003	Tyrophagus putrescentiae in, on
Uukuniemi virus in, transmission of	in Philippines 2804	budgerigar 288
2233	in Thailand 2809	Japanese encephalitis (see Encephalitis,
Ixodes scapularis	mapping of, with vegetation maps 2743	Japanese)
Babesia microti in, transmission of 242	on cattle	japonica, Haemaphysalis
in USA 2465	immunity to, review 952	japonica, Neotrombicula
on wildlife, in Oklahoma 2465	in developing countries 714 in Europe 1948	japonica, Periplaneta japonicus, Aedes
Ixodes signatus, arboviruses in, transmission of 1947	in India 2837	Jars, Aedes aegypti in, in West Malaysia
Ixodes texanus	in Timor 2820	1800
in USA 2465	in tropics 1649	Javanisca indosinica, sp. nov., description
on wildlife, in Oklahoma 2465	in Wyoming 2525	3337
Ixodes trianguliceps	in Zimbabwe 937	jenningsi, Simulium
Babesia microti in, transmission of 971	resistance to 16	Jerboa, Severtzov's (see Allactaga
biology of 2736	on game animals	severtzovi) jettmari, Laelaps
DDT not affecting populations of 977 engorgement in, effects of delayed mating	in Africa, bibliography 13 in South Africa 1888	jevporiensis, Anopheles
on 274	on livestock, in Australia 18, 19, 2831	JH-I (see 2,6-Nonadienoic acid, 7-ethyl-9-
fecundity in, effects of delayed mating on	on man, disease transmission by 2316	(3-ethyl-3-methyloxiranyl)-3-methyl-,
274	on sheep	methyl ester)
in UK 971	in Europe 1948	JH-II (see 2,6-Nonadienoic acid, 9-(3-ethy
in USSR 977, 1046, 2736, 3083	role in back-rolling of 320	3-methyloxiranyl)-3,7-dimethyl-, methy
on Rodentia, in Siberia 3083 on small mammals	on small mammals, in Scandinavia 2338	ester) JH-III (see 2,6-Nonadienoic acid, 9-(3,3-
in England 971	on Sylvilagus floridanus in Indiana 3145	dimethyloxiranyl)-3,7-dimethyl-, methy
in Ukraine 2736	in USA 1155	ester)
population spatial structure in 977	pathogens in, modes of transmission of	jiangxiensis, Walchia
seasonal abundance of 971	1091	Jird, Libyan (see Meriones libycus)
Ixodes uriae	resistance to, bibliography 979	Jodfenphos (see Iodofenphos)
arboviruses in	serial mounting of sections of 2514	johannseni, Simulium
in Norway 702 transmission of 1947	taxonomy of, in India 705	johnhafneri, Geomydoecus johni, Culex
in Norway 702	Ixodorhynchidae, chaetotaxy of 921 Ixoreus naevius, Ceratophyllus diffinis on, in	Jordan, Ctenocephalides felis in, on cat
in USSR 702	Alaska 1187	365
on sea birds, in Norway 702	iyoensis, Tabanus	jubifer, Culex
Ixodes vespertilionis	Jacutin (see Lindane, with phenylmethyl	judaicus, Buthotus
in USSR 1071	benzoate)	julianoi, Trichogramma
on bat, in Uzbekistan 1071	jalorensis, Radfordia ensifera	juppi, Aedes
Ixodes woodi in USA 495, 2465	Jamaica Aedes taeniorhynchus in, viruses in 845	Juvenile hormone I (C ₁₈) (see 2,6- Nonadienoic acid, 7-ethyl-9-(3-ethyl-3-
on Neotoma floridana, in Oklahoma 495	Amblyomma cajennense in	methyloxiranyl)-3-methyl-, methyl ester
on wildlife, in Oklahoma 2465	on donkey 2463	Juvenile hormone II (C ₁₇) (see 2,6-
Ixodidae	on man 2463	Nonadienoic acid, 9-(3-ethyl-3-
acaricide resistance in, in USSR 928	viruses in 845	methyloxiranyl)-3,7-dimethyl-, methyl
anatomy of, book 719	Anocentor nitens in, on donkey 2463	ester)
as elements of biocoenoses 1047	Anopheles grabhamii in, viruses in 845	Juvenile hormone III (C ₁₆) (see 2,6- Nonadienoic acid, 9-(3,3-
Brucella spp. in, transmission of 3413	Boophilus microplus in, on cattle 2463 Culex nigripalpus in, viruses in 845	dimethyloxiranyl)-3,7-dimethyl-, methyl
cell cultures from, review 1469	Rhipicephalus sanguineus in, on dog	ester)
control of 711	2463	Juvenile hormones
hosts of, immunological interactions with	jamesbeeri, Geomydoecus	Aedes aegypti 2062
1022	janalis, Laelaps	Leucophaea maderae 1732
in Afghanistan 695	Japan	Periplaneta americana 2009, 2844
in Malagasy Republic 3060 in Spain 243	Aedes daitensis in, on man 2947 A. flavopictus in, natural enemies of 588	Sarcophaga crassipalpis 1611 regulation of, review 3134
in Tadzhikistan 1072	Alphitobius diaperinus in, in fowl housing	review 3150
in Turkmenia 1636	2204	K-Othrin (see Cyclopropanecarboxylic acid
in Turkmenistan, book 2747	Anopheles sinensis in 2907	3-(2,2-dibromoethenyl)-2,2-dimethyl-,
in Virginia 711	Cheyletiella spp. in	cyano(3-phenoxyphenyl)methyl ester,
in Xinjiang-Uighur 973	on cat 983	$[1R-[1\alpha(S^*),3\alpha]]-)$
on birds, in Kirghizia 1033 on cattle, in Karnataka 1401	on man 983 C. blakei in, on cat 288	Kadethrin (see Cyclopropanecarboxylic aci 3-[(dihydro-2-oxo-3(2H)-
on livestock in Egypt 2752	C. parasitivorax in, on rabbit 288	thienylidene)methyl]-2,2-dimethyl-, [5-
on Rodentia, in Maritime Territory 3389	Chironomidae in, in rice-fields 1624	(phenylmethyl)-3-furanyl]methyl ester,
on small mammals, in Maritime Territory	Culex spp. in 111	$[1R-[1\alpha,3\alpha(E)]]-)$
491	C. molestus in 2050	Kala-azar (see Leishmaniasis, visceral)
on wildlife, in Oklahoma 2465	C. pipiens in 2907, 2908	Kallikrein, in rat salivary glands, Tityus
preyed on by, Buphagus erythrorhynchus, in South Africa 1643	C. quinquefasciatus in 2050	serrulatus venom stimulating secretion 2780
salivary glands in, functions of, review	C. tritaeniorhynchus in 2907 in rice-fields 99, 1226	kamtshaticus, Melophagus
953	viruses in 3286	kanhansis Schoongastia

Kansas, riaematodia irritans in, on cattle	Keys conta.	Kisemayo virus
2422	Dirhinus spp., in Indian subregion 3056	characterization of 251
kansuensis, Haematopota	Eadiea 2236	in, Rhipicephalus pulchellus, in Somalia
karibaense, Prosimulium	entomogenous nematodes 1134	251
kashmirensis, Haemaphysalis	Eudasyphora 683	Kitazin (see Phosphorothioic acid, O,O-
kauli, Sergentomyia		
	Geomydoecus, on Geomys 33	dimethyl S-(phenylmethyl) ester)
kawamurai, Leptotrombidium	G. californicus complex 3164	Kitazin-P (see Phosphorothioic acid, O,O-
Kayella anatolica	G. minor complex 1171	bis(1-methylethyl) S-(phenylmethyl)
in Bulgaria 1664	G. neocopei complex 1492	ester)
on small mammals, in Bulgaria 1664	G. oregonus complex 31	Kitchens, Periplaneta americana in, in
kazakhstanica, Bembix	Guntheria, in Papua New Guinea 1968	Punjab 793
kazbegiensis, Callopsylla		
	Haemolaelaps ulysses group 3103	klossi, Aviostivalius (Stivalius)
kazeruni, Phlebotomus	Hippoboscidae, in Kazakhstan 681	klossi, Stivalius (see Aviostivalius klossi)
kazirangensis, Drepanocerus	Hoplopleura, in Argentina 1475	Knemidokoptes mutans
keeni, Opisodasys	insects, reference guide 538	in Indonesia 2806
kelleyi, Ornithodoros	Ixodidae	
Kemerovo viruses, in, Ixodes uriae, in		in Nigeria 1493
Norway 702	in Spain 243	in Spain 3419
Kentucky	in Virginia 711	on Alectoris rufa, in Spain 3419
Dermanyssus americanus in, on man	Ixodoidea	on fowl
	in India 705	in Indonesia 2806
1670	in Malagasy Republic 3060	in Nigeria 1493
Haematobia irritans in, on cattle 2430		
Musca autumnalis in, on cattle 2430	Laminosioptes 3423	on guineafowl, in Nigeria 1493
Kenya	Leptotrombidium species groups 2245	Knemidokoptes pilae
Aedes aegypti in 2365	Lucilia, in Norway 2408	control of, acaricides for 1663
A. lineatopennis in, viruses in 1551	Macrocheles, in New Zealand region	in Australia 1663
Amblyomma variegatum in, viruses in	3092	on budgerigar, in Queensland 1663
1641	Meloinae, in India 227	
		Knox Out (see Diazinon)
Anopheles spp. in, in rice-fields 854	Mesostigmata, in British Isles 302	Kobus leche, Strobiloestrus vanzyli on, in
A. coustani in, viruses in 1551	Ornithogastia, in Papua New Guinea	Zambia 1338
Astigmata in, on Erinaceus 2239	1968	koenigii, Dysdercus
Calcarmyobia rhinolophia in, on	Parasitinae, in British Isles 1960	koliensis, Anopheles
Rhinolophus 301	Periplaneta nymphs 554	konoi, Lardoglyphus
Culicidae in 97	Phlebotominae	kopetdaghica, Haemaphysalis
in Pandanus axils 54	in Portugal 1843	koreicus, Aedes
in tree holes 2876	in Saudi Arabia 2530	
		kotoshoensis, Tabanus
Culicoides spp. in, viruses in 1551	in Venezuela 419	krikkeni, Caccobius
Glossina spp. in 1877	Phlebotomine genera, in New World	kualalumpurensis, Austroglycyphagus
G. fuscipes in 1332	2661	kuehniella, Ephestia
G. pallidipes in 651, 1313, 1332, 2685,	Phthiraptera, in Afrotropical region 1177	kulkarnii, Amphipsylla
3000, 3002	Physconelloides, on Columbinae 2566	kulumadouensis, Whartonia
flagellates in 1312	Psorergatoides 736	kumari, Hyalomma
in conifer plantations 3321	Raillietia 3102	Kunjin virus
trypanosomes in 1085	Rattimyobia 2483	in
Ixodoidea in 951	Rhodacaridae, in USSR 1006	Aedes albopictus, inhibiting
medical entomology in 15	Schoengastia, in Asiatic-Pacific region	development 844
Phlebotominae in	513	Culicidae, transovarial transmission of
flagellates in 2972	Scorpiones, in Mexico 1676	844
on lizard 2972	Scutoverticidae 994	kurentzovi, Telenomus
Phlebotomus martini in 1086	Sepsidae, in Japan 2419	kutchensis, Haemaphysalis
P. pedifer in 1086	Shunsennia 3095	Kwell (see Lindane)
Rhipicephalus spp. in, viruses in 1641	Simuliidae, in Italy 2392	Kyasanur Forest disease, virus, tick
R. appendiculatus in, sporozoites in 3089	Simulium, in Philippines 2813	transmission of 3137
		Kynurenine (see Benzenebutanoic acid, α,2-
Scarabaeidae in, in dung 917	S. damnosum complex 143	
veterinary entomology in 15, 1722	Stegomyia, in Oriental region 575	diamino-γ-oxo-)
Xenopsylla spp. in, on Tatera 1513	Strandius, in India 1629	L-27 (see Propanamide, N-[2-amino-3-nitro
Keratella, eaten by Simulium larvae 1037	Tabanidae	5-(trifluoromethyl)phenyl]-2,2,3,3-
Keratosis, in guinea-pig, caused by	in Benelux countries 449	tetrafluoro-)
Trixacarus caviae 510	in California 2444	La Crosse virus
Kermadec Islands (indexed under New	Tabanus bifarius group 3340	in
Zealand Island Territories)	T. iyoensis group 1373	Aedes triseriatus
Kerteszia, in Brazil 1202	Tinolestes 2903	effects on feeding of 577
kesseli, Aedes		in Indiana 2900
	Tityus trivittatus subspecies 2496	
Aculanta in Pritish Islan 601	Triatominae, in Bolivia 1474	transmission of, molecular basis of
Aculeata, in British Isles 691	Trox, in Saudi Arabia 2528	2630
Adlerius 869	Vespinae, in British Isles 484	Labiatae, insecticidal activity of
Aedes scutellaris group, in Fiji, Samoa	Wilhelmia, in England 2670	mucilaginous seeds of 2601
and Tonga 1236	kibunensis, Culicoides	labranchiae, Anopheles
Aedinus 2903	Kieselguhr, against, Nosopsyllus fasciatus	Laccase (see Oxygenase, monophenol mono
Afrolabidocarpus 2484	2578	
Amphipsylla, in Himalayas 3186	kiiensis, Chironomus	Lactalbumin hydrolysate, culture-medium
Anoedioporpa 2903	kikuyuensis, Microtrombicula	component for, Trypanosoma brucei
		149
Anomiopsyllinae 1750	Kinase (phosphorylating), ethanolamine, in	
Anopheles hyrcanus group 2067	Culex quinquefasciatus, characterization	Lactic acid (see Propanoic acid, 2-hydroxy-
Argasidae, in Spain 243	of 2625	lactis, Carpoglyphus
Atopomelidae, in Neotropical region 286	Kinase (phosphorylating), hexo-	lacustris, Gerris
Austroglycyphagus 1000	in Periplaneta americana nervous system,	Laelapinae
Blattaria, in Quebec 551	not inhibited by DDT 552	on Marsupialia, in Western Australia
Bombyliidae, in Arabian Peninsula 2532	in Phlebotominae, use as taxonomic	1653
Boophilus 2476	character of 2967	on Muridae, in Western Australia 1653
Buthidae, in Zimbabwe 1428	isoenzymes, in Culex pipiens group 2035	Laelaps
Calliphoridae	Kinase (phosphorylating), inosine, in	on Bandicota bengalensis, in Burma
in New Caledonia 3339		2478
	Anopheles albimanus 1213	
in Thailand 662	kingi, Culicoides	on Rattus, in Burma 1962
Cheyletus 506	kingstoni, Onthophagus	on Suncus murinus, in Burma 2775
in Afrotropical region 733	Kininogenin (see Kallikrein)	Laelaps agilis
Chrysops, in Argentina 1476	Kinkajou (see Potos flavus)	in Bulgaria 1659
Culex, in Angola 2638	Kinoprene (2-propynyl (2 <i>E</i> ,4 <i>E</i>)-3,7,11-	in Czechoslovakia 933
Culicidae, in Canada 1533	trimethyl-2,4-dodecadienoate)	in Hungary 2244
Culicoides, in Florida 131	against, Culex pipiens 1754	on small mammals
Culicoidini, in Australia 863	in Culex pipiens, effects of 1754	in Bulgaria 1659
Dasyphora, in Norway 881	kirovabadicus, Culicoides (see C.	in Czechoslovakia 933
Diptera, in Nearctic region 2587	circumscriptus)	seasonal abundance of 1659

P. papatasi 867

infectivity of, effects of host on 2146

on Rattus, in Burma 1962

laeta, Loxosceles

laetitinctus, Tabanus

laeviceps, Ceratophyllus (see Nosopsyllus Latrodectus mactans contd. Laelaps algericus in Bulgaria 1659 in USSR 1060 parasitised by laeviceps) laeviceps, Nosopsyllus (Ceratophyllus) laevigatus, Scheloribates Desantisca spp., in Puerto Rico 3429 Mimogaurax lancifer, in Puerto Rico on Mus musculus, in Crimea 1060 on small mammals, in Bulgaria 1659 laeviusculus, Neohaematopinus 3429 reproductive potential in 3429 seasonal abundance of 1659 Lagomorpha sex pheromone of 303 Laelaps angiodes Eutrombicula batatas on, in Arizona 982 sp. nov., description of 1653 Trombiculidae on, in Indiana 1966 group of in Australia 1653 Lagoons, Anopheles subpictus in, in development in 1473 in Argentina 1473 on Zyzomys woodwardi, in Western Indonesia 1777 laguri, Ixodes Latrodectus mactans tredecimguttatus (see Australia 1653 Lagurus lagurus, Siphonaptera on, removal by host of 2342 Laelaps bycalia L. tredecimguttatus) sp. nov., description of 508 in Australia 508 Latrodectus pallidus pavlovskii biology of 2778 in USSR 2778 lahillei. Simulium on *Pseudomys albocinereus*, in Western Australia 508 lahorensis, Alveonasus (see Ornithodoros Latrodectus tredecimguttatus biology of 2778 in USSR 2778 lahorensis) lahorensis, Ornithodoros (Alveonasus) Laelaps calvescens Lakes sp. nov., description of 1416 Latrodectus variolus, in Puerto Rico 3429 in Papua New Guinea 1416 diflubenzuron in, residues of 2109 Latumcephalum, on Marsupialia, in Western on Pogonomys macrourus, in New Guinea Procladius spp. in, in Poland 1917 1416 Simuliidae in, in Italy 2392 Australia 2565 Lakes, recreational, Chironomidae in, in Laelaps clethrionomydis latus, Arrenurus in USSR 1046, 3389 on Rodentia, in Maritime Territory 3389 USA 912 lawrensis, Lipeurus (see Numidilipeurus Lakes, reservoir lawrensis) Aedes spp. in, in Tuva ASSR 2588 Culicoides spp. in, in USSR 2647 Tabanidae as affected by construction of Laelaps echidnina lawrensis, Numidilipeurus (Lipeurus) laxoscutum, Leptotrombidium

Learning, in Periplaneta americana 797 in Burma 1962, 2478 on Bandicota bengalensis, in Burma 2478 2694 lebedewi, Ceratophyllus on Rattus, in Burma 1962 seasonal abundance of 2478 Tabanidae in, in Uzbekistan 1070 Lecithins diet component for, Aedes aegypti 2608 unimolecular films of, against, Anopheles Lambornella clarki, WHO data sheet on Laelaps elegans 2360 spp. 854
Lectins, to Trypanosoma cruzi, in Rhodnius prolixus 2295
lectularius, Cimex Lambornella stegomyiae, WHO data sheet on 2360 sp. nov., description of 1653 in Australia 1653 on *Pseudomys*, in Western Australia 1653 lamella, Gahrliepia
Laminosioptes
on birds, in Antwerp Zoo 3423
taxonomy of 3423 Laelaps hilaris Legislation, registration of microbial pesticides 1540 in Czechoslovakia 2232 in Poland 323 Laminosioptes cysticola, descriptions of Leguminosae, insecticidal activity of on Microtus arvalis, in Czechoslovakia 3423 mucilaginous seeds of 2601 2232 lancangjiangensis, Haematopota Leibovitz 15 medium, culture-medium component for, Boophilus microplus cell lines 2226 on Mustela, in Poland 323 lancifer, Mimogaurax (Pseudogaurax) lancifer, Pseudogaurax (see Mimogaurax Laelaps janalis lancifer) sp. nov., description of 508 in Australia 508 Leishmania bibliography 1254, 1255 control of Lankestria culicis (see Ascocystis culicis) on Pseudomys occidentalis, in Western Australia 508 Lanthanum in Amblyomma variegatum, penetration into nervous system of 1944 reservoir control for 1576 Laelaps jettmari in USSR 1060 into nervous system of 1944 marker for, *Glossina* spp. 2681 vector control for 420, 1576, 2536 development of, in vectors 1084 on Mus musculus, in Crimea 1060 dog, in Italy 764 lizard, in Kenya 2972 Laelaps lybacia Anopheles balabacensis in 2127 sp. nov., description of 508 malaria in 2127 Lutzomyia umbratilis, in French in Australia 508 laptevi, Caenopsylla Guiana 2969 on Pseudomys praeconis, in Western Australia 508 Lardoglyphus konoi Lardoglyphus konoi
aggregation pheromone in 3424
alarm pheromone in 1652
Larus cirrocephalus, Ornithodoros capensis
in nests of, in West Africa 704
Lasiohelea (see Forcipomyia)
lasiophthalma, Hybomitra man in French Guiana 2969 in Spain 3308 Laelaps myonyssognathus in Burma 1962, 2478, 2775 on Bandicota bengalensis, in Burma Phlebotominae, transmission of 326 Phlebotomus spp. in Kenya 2972 on Rattus, in Burma 1962 Lasioseius mcgregori on Suncus murinus, in Burma 2775 in Kirgizia 1688 seasonal abundance of 2478 in Bulgaria 1659 P. ariasi, transmission of 2148 Laclaps nuttalli in Burma 1962, 2478 on small mammals, in Bulgaria 1659 Proechimys cuvieri, in French Guiana lateralis, Cercyon
Latilamellobates incisellus (see Ceratozetes 1154 Sergentomyia spp., in Kenya 2972 S. dentata, in Kirgizia 1688 life-cycle of 3308 on Bandicota bengalensis, in Burma 2478 incisellus) on Rattus, in Burma 1962 seasonal abundance of 2478 latinum, Simulium latipes, Cnetha (see Simulium latipes)
latipes, Eusimulium (see Simulium latipes) reservoirs of taxonomy of, Laelaps elegans misidentified as, in Western Australia 1653 control of 1844 latipes, Scheloribates
latipes, Simulium (Cnetha; Eusimulium) in Middle East 420 Laelaps parameces vectors of sp. nov., description of 1653 latiscutata, Gahrliepia control of 1844 in Australia 1653 latiscutatus, Hirstionyssus (see H. host preferences of in Middle East 420 2150 on Conilurus penicillatus, in Western Australia 1653 Laelaps pavlovskyi in USSR 3389 on Rodentia, in Maritime Territory 3389 butantanensis) Leishmania donovani clones of, variation in 867 latizonum, Simulium Latoia vivida in South Africa 485 on man, urticaria caused by 485 toxin in 485 dog, in France 132, 134 man, lizard leishmaniae providing partial immunization against 2972 Laelaps sarcimen Latrodectus antheratus, venom of 3115 sp. nov., description of 1416 in Papua New Guinea 1416 Latrodectus dahli biology of 2778 in USSR 2778 Phlebotomus ariasi, transmission of 132, 133, 134
P. caucasicus 867
Leishmania gymnodactyli
clones of, variation in 867
in, Phlebotomus papatasi 867 on Pogonomys macrourus, in New Guinea 1416 Laelaps synnomus Latrodectus geometricus, in Puerto Rico sp. nov., description of 1653 3429 Latrodectus hesperus courtship in 303 in Australia 1653 on Zyzomys argurus, in Western Australia Leishmania major predators of, defence mechanisms against 1653 clones of, variation in 867 Laelaps wittei 2493 in Burma 1962 Phlebotomus duboscqi, in Senegal sex pheromone of 303

Latrodectus mactans

in Puerto Rico 3429

on man, bite by, treatment of 3113

Duojeet Index		31
Leishmania tropica, in, man, in Saudi	Leptopsylla segnis	Leptotrombidium kawamurai, in Japan
Arabia 2535 Leishmania tropica major (see L. major)	host preferences in 2333 in USSR 1060	2230 Leptotrombidium laxoscutum
Leishmaniasis	mating in 2333	sp. nov., description of 3099
aetiology of 3308	on Mus musculus, in Crimea 1060	in China 3099
bibliography 1254, 1255 control of, in rural areas 326	on rodents, removal by host of 2342	on Pipistrellus abramus, in Shandong 3099
in French Guiana 1154	rearing of, techniques for 2333 sessility in 2333	Leptotrombidium nanlingense
in Greece 1576	Leptopsylla silvatica (see Peromyscopsylla	sp. nov., description of (in
in Kenya 1086	silvatica)	Trombiculindus) 2247
in Saudi Arabia 2530, 2535 Leishmaniasis, visceral	Leptopsylla taschenbergi in USSR 1060	in China 2247 on Rattus bowersii, in Guangdong 224'
in Bihar 1260, 1261	on Mus musculus, in Crimea 1060	Leptotrombidium nudisensillum
in Sudan 634	Leptotrombidium habitats of 2811	sp. nov., description of 2246
Leiurus quinquestriatus	in Ryukyu Islands 2230	in China 2246 on Rattus niviventer, in Yunnan 2246
telson extract from, effects on rat gut of 2497	in West Malaysia 2811	Leptotrombidium pallidum burnsi 2230
venom of 309	Leptotrombidium akamushi 2230 Leptotrombidium allosetum	Leptotrombidium pallidum pallidum, in Japan 2230
Leiurus quinquestriatus quinquestriatus,	sp. nov., description of 2245	Leptotrombidium postfoliatum
venom of, toxins in 742 Lemna minor	in China 2245	sp. nov., description of 2245
Culicidae and predators as affected by	on Apodemus agrarius, in Fujian 2245 Leptotrombidium arenicola	in China 2245 on Rattus niviventer, in Fujian 2245
1243	habitats of 2812	Leptotrombidium rheinwaldi
dominant in ponds without mosquito	in Indonesia 2810	sp. nov., description of 1977
larvae 384 repellent activity of extracts of 2618	in Malaysia 725, 2810, 2812 in oil-palm plantations, in West Malaysia	in Morocco 1977 on <i>Elephantulus rozeti</i> , in Morocco 197
lemniscata, Epicauta	725	on Meriones libycus, in Morocco 1977
Lemongrass (see Cymbopogon citratus)	on Rattus argentiventer, in Indonesia	Leptotrombidium scutellare, in Japan 223
lemur, Onthophagus lenti, Triatoma	on Rattus rattus, in Indonesia 2810	sp. nov., description of 2490
Leopard, snow (see Uncia uncia)	on Suncus murinus, in Indonesia 2810	in Tunisia 2490
Lepidoglyphus destructor, enzymes in, and	Rickettsia tsutsugamushi in	on Dipodillus simoni, in Tunisia 2490
in house dust 1964 Lepidoptera	in Indonesia 2810 transmission of 2812	Leptotrombidium striatum (see Euschoengastia striata)
diapause in, review 1191	Leptotrombidium bengbuensis	Leptotrombidium subobscurum
in birds' nests, in UK 776	sp. nov., description of 3098	sp. nov., description of 2490
on man, hypersensitivity to 319, 2828 overwintering of, in birds' nests 2005	in China 3098 on Rattus norvegicus, in Anhui 3098	in Philippines 2490 on <i>Rattus insignis</i> , in Philippines 2490
taxonomy of 1719	Leptotrombidium deliense	Leptotrombidium trapezoidum
zoophilous 1632 lepidum, Amblyomma	biology of 297 control of 299	sp. nov., description of 2245
Lepiselaga crassipes	habitats of 2812	in China 2245 on Rattus bowersii, in Fujian 2245
autogeny in 2187	in India 3090	Leptotrombidium umbricola
in Brazil 2187 Mansonella ozzardi in, not developing	in Indonesia 1961, 1963 in Japan 2230	sp. nov., description of 1974 in Malaysia 1974
1580	in Malaysia 725, 1973, 1974, 2812	in oil-palm plantations, in West Malaysia
on man, in Brazil 2187	in oil-palm plantations, in West Malaysia	1974
lepivora, Cuterebra Lepomis macrochirus	725, 1973 on Rattus argentiventer, in Indonesia	on Rattus, in West Malaysia 1974 Leptotrombidium vivericola
diflubenzuron in, residues of 2109	1963	in Malaysia 725
insect growth regulators in, residues of 3013	on Rattus exulans, in Irian Jaya 1961	in oil-palm plantations, in West Malaysia
leporina, Oestromyia	on Rattus rattus, in Irian Jaya 1961 on Rattus ruber, in Irian Jaya 1961	taxonomy of, characters distinguishing L.
leporispalustris, Haemaphysalis	on Rattus tiomanicus, in West Malaysia	umbricola and 1974
Leptinotarsa, toxin in 232 Leptinotarsa decemlineata	725 reproduction in, effects of γ-irradiation on	Leptotrombidium yui in China 997, 2760
enzymes in 748	298	on Rodentia, in Kiangsu 2760
insecticides in, acetylcholinesterase	Rickettsia tsutsugamushi in	seasonal abundance of 997
inhibition by 748 Leptinotarsin, in Leptinotarsa 232	in Maharashtra 3090 transmission of 297, 2812	Leptotrombidium yunnanensis sp. nov., description of 1667
Leptinus americanus	Leptotrombidium discum	in China 1667
in USA 3378	sp. nov., description of 2245	on Anourosorex squamipes, in Yunnan
on Blarina brevicauda, in West Virginia 3378	in China 2245 on Rattus niviventer, in Fujian 2245	on Apodemus sylvaticus, in Yunnan
seasonal abundance of 3378	Leptotrombidium dongluoensis	1667
Leptocera acutangula, in USSR 675	sp. nov., description of 2245	on Trogopterus xanthipes, in Yunnan
Leptocera ferruginata, in USSR 675 Leptocera lugubris, in USSR 675	in China 2245 on <i>Rattus losea</i> , in Fujian 2245	1667 Lepus oiostolus, Amphipsylla kulkarnii on,
Leptocera vagans, in USSR 675	Leptotrombidium fletcheri	in Nepal 3186
Leptoconops, on sheep, in Idaho 3282	habitats of 2812	lesleyae, Phlebotomus (see Sergentomyia
Leptoconops foulki in USA 415	in Indonesia 1961 in Malaysia 725, 2812	lesleyae) lesleyae, Sergentomyia (Phlebotomus)
predators of, in California 415	in oil-palm plantations, in West Malaysia	Lesotho, Psoroptes ovis in, on sheep 285
seasonal abundance of 415 leptodactylus, Astacus	725 on <i>Rattus exulans,</i> in Irian Jaya 1961	lesteri, Anopheles Lethane 384 (see Thiocyanic acid, 2-(2-
Leptomonas	on Rattus leucopus, in Irian Jaya 1961	butoxyethoxy)ethyl ester)
Orchances howardii	on Rattus rattus, in Irian Jaya 1961	letifer, Anopheles
Orchopeas howardii attachment of 2866	on Rattus tiomanicus, in West Malaysia 725	in Aedes togoi, utilisation by Brugia pate
cysts of 2873	Rickettsia tsutsugamushi in, transmission	of 68
Palaeopsylla minor	of 2812	in Anopheles atroparvus, utilisation by
attachment of 2866 cysts of 2873	Leptotrombidium guangdongense, descriptions of 1668	Brugia patei of 68 in Anopheles stephensi, effects of
Leptomonas ctenocephali	Leptotrombidium imphalum philippinense	Plasmodium berghei on 1199
in Ctenocephalides canis	ssp. nov., description of 2490 in Philippines 2490	in <i>Periplaneta americana</i> , uptake from gu of 553
attachment of 2866	on Nannosciurus surrutilus, in Philippines	in Psoroptes cuniculi 2486
cysts of 2873	2490	in Psoroptes ovis 2486
Leptomonas pessoai, in, Phlebotomus caucasicus 867	Leptotrombidium intermedium in China 997, 2760	leuckarti, Cyclops (see Mesocyclops leuckarti)
Leptopsylla bidentata (see Peromyscopsylla	on Rodentia, in Kiangsu 2760	leuckarti, Mesocyclops (Cyclops)
bidentata)	seasonal abundance of 997	leucocelaenus, Haemagogus

on Mus musculus, in Pakistan 2772

Aedes aegypti 2640

Leucocytozoon, in, Simuliidae, transmission Lindane contd. Liohippelates collusor, taxonomy of, of 2392 against contd. transferred from Hippelates 1832 Leucocytozoon tawaki Anopheles stephensi 2640 Liohippelates pallipes, taxonomy of, A. subpictus 2640 transferred from Hippelates 1832 Cochliomyia hominivorax 1362 Liohippelates robertsoni, taxonomy of, Austrosimulium ungulatum, Culex quinquefasciatus 2640 transferred from Hippelates 1832 ultrastructure of 142 Liomys pictus, Hoplopleuridae on, in Mexico 1465 Eudyptes pachyrhynchus, in New Zealand 142 Demodex spp., on man Ixodoidea, on sheep 320 Lipase, triacyglycerol, in Sarcophaga bullata, activity at low temperatures of Melophagus ovinus, on sheep 320 leucomelas, Aedes 3410 Leucophaea maderae Ornithodoros lahorensis 3027 abdominal exocrine glands in 337 Paederus sabaeus 3049 activity in, rhythm of 1162
digestive enzymes in 1489
embryonic development in, ecdysteroids
during 2546
in Netherlands 1740 lipeuroides, Tricholipeurus Pediculus capitis, on man 559 Lipeurus caponis in Nigeria 2013 Psoroptes ovis, on sheep 3101 Pthirus pubis, on man 348, 1176 on fowl, in Nigeria 2013 Triatominae, in dwellings 807 in fish, residues of 1274 in Lucilia cuprina, effects of γ -irradiation Lipeurus lawrensis (see Numidilipeurus insect growth regulators in, inhibition of chitin synthesis by 1453 lawrensis) Lipids on susceptibility to 888 in arthropod cuticle, techniques, book juvenile hormones in, age-related changes in Periplaneta americana in 1732 3131 in Dermacentor andersoni foveal glands, storage of sex pheromone in 3404 in Dermacentor variabilis foveal glands, effects of carbon dioxide on nocomotion in, rhythm of 1168
mid-gut in, proteinase inhibitor in 1489
ovarian development in 2558
hormonal regulation of 24, 25
leucosphyrus, Anopheles
Levarterenol ((R)-4-(2-amino-1hydroxyethyl)-1,2-benzenediol)
in Amblyomma hebraeum, not inhibiting
ATPase 2740
in rat. release hy Latrodectus anthorety locomotion in, rhythm of 1168 susceptibility to 2848 effects of crowding on susceptibility to storage of sex pheromone in 2848 in pheasant, effects on blood of 2793 in Glossina morsitans effects of endosulfan on 2680 transport of 2682 in poultry, residues of 2509 in Rhodnius prolixus, knockdown caused by 2777 in Glossina morsitans milk glands, synthesis during pregnancy of 1094 in Glossina palpalis 2402 in Haematobia irritans ovaries 898 in Hypoderma oenocytes 1592 resistance to, in in rat, release by Latrodectus antheratus venom of 3115 Boophilus microplus, in South Africa Pediculus capitis, in Netherlands 1178 Psoroptes ovis 2837 with phenylmethyl benzoate in Hypoderma cenceytes 1592 in insect cuticle 1159 in insect diets, requirements for 2834 in Musca domestica eggs, effects of yirradiation on 478 lewisi, Cladotanytarsus li, Rhadinopsylla Libellula, preying on, Aedes aegypti, in Burma 1247 against Libellulidae, helminths in, in Uzbekistan Pediculus capitis 1178 Sarcoptes scabiei, on pig 1959 with trichlorphon in Musca domestica larvae, effects of diet 316 on 1364 Liberia Anopheles spp. in 1794
A. funestus in 409
A. gambiae in 409 in Rhodnius prolixus, visualising of 2861 in Sarcophaga bullata hemolymph, not affected by abscisic acid 3360 against Anopheles spp. 2039
A. atroparvus 75
Culex molestus 75 in Solenopsis invicta post-pharyngeal glands 2203 bancroftian filariasis in 409 in building materials, persistence of Lice (see Phthiraptera) glands 2203

Lipofuscins, in Musca domestica brain, as indicator of aging 460

Liponyssoides muris
in Burma 1962, 2478 Light-trap 2039 lineata, Wilhelmia (see Simulium lineatum) for Culex tritaeniorhynchus 99
Culicoides spp. 2143
vandal-proofing of 3283
Light-trap, AMSS
description of 3234, 3235
for, Culicidae 3234, 3235
Light-trap, CDC lineatopennis, Aedes lineatum, Hypoderma lineatum, Simulium (Wilhelmia) on Bandicota bengalensis, in Burma lineatus, Aedes lineola, Tabanus 2478 on Rattus, in Burma 1962 seasonal abundance of 2478 Linguatula serrata in Spain 3117
in USA 1679
on goat, in Spain 3117
on Sylvilagus floridanus, in USA Liponyssus bacoti (see Ornithonyssus bacoti) Coquillettidia perturbans Culicidae 97, 2064 Phlebotominae 2150 Liponyssus sylviarum (see Ornithonyssus 1679 sylviarum) Lipoproteins, in Glossina morsitans Linognathus control of, insecticides for 503 on sheep, in Iran 503

Linognathus pedalis control of 2524 in USA 2524 hemolymph, diglyceride transport by Light-trap, chemical 2682 Ceratopogonidae 97 Culicidae 97 Lipoptena cervi collecting of 1894 Phlebotominae 97 descriptions of 1894 life-cycle of 344 on sheep, in Wyoming 2524 in German Democratic Republic 1721 life history of 1894 on deer, in German Democratic Republic 1721 Light-trap, electrocuting, for, flying insects 895
Light-trap, New Jersey, for, Culicidae
1790, 2122
lignarius, Panstrongylus
ligula, Gahrliepia (see Schoengastiella ligula)
ligula, Schoengastiella (Gahrliepia)
Lilac (Syringa vulgaris)
Vespa crabro on, damage caused by
1631
lilace Encellighers Linognathus stenopsis
control of 344
in Mauritius 344
life-cycle of 344 preparing of 1894 listeri, Anopheles life-cycle of 344
on goat, in Mauritius 344
Linognathus vituli
biology of 2291, 2853
control of 258, 2853
in Australia 258
in Canada 1742 Listeria monocytogenes birds, in Kirghizia 1033 Hyalomma marginatum, effects on lilaea, Eucalliphora respiration of 250 Lime-sulfur (see Calcium sulfide (Ca(Sx))) Rhipicephalus bursa Minipicephalus bursa
multiplication of 262
persistence of 262
Xenopsylla cheopis, parenteral infection
with 1515
Listrophoridae, taxonomy of 2770
Listrophoroides decoratus in New Zealand 2290, 2291 in USA 2853 Limnephilus flavicornis, Bacillus thuringiensis in, not pathogenic 1797 Limnochares aquatica in UK 2713 in water supply, effects of permethrin on on cattle distribution pattern of 2291 effects of 2015 in New Zealand in Ontario 1742 2713 2290 Limnophyes minimus biology of 2168 control of, insecticides for 2168 in UK 2168 sp. nov., description of 2772 in Pakistan 2772 in Queensland on Meriones hurrianae, in Pakistan 2772 in USA 2853 seasonal abundance of 2290 on Rattus rattus, in Pakistan 2772 Linoleic acid (see 9,12-Octadecadienoic acid, (9Z,12Z)-) in sewage systems, in England 2168 limpidapex, Phaeotabanus limpidus, Centruroides Listrophoroides exilis sp. nov., description of 2772 in Pakistan 2772 on Bandicota bengalensis, in Pakistan (9Z, 12Z)-)
Linolenic acid (see 9,12,15-Octadecatrienoic acid, (9Z,12Z,15Z)-)
γ-Linolenic acid (see 6,9,12-Octadecatrienoic acid, (6Z,9Z,12Z)-)
Liohippelates apicatus, taxonomy of, transferred from Hippelates 1832
Liohippelates bishoppi, taxonomy of, transferred from Hippelates 1832 Limulus polyphemus, nervous system in Linaloe (see Bursera delpechiana) Lindane ($(1\alpha,2\alpha,3\beta,4\alpha,5\alpha,6\beta)$ -1,2,3,4,5,6-hexachlorocyclohexane) on Mus musculus, in Pakistan 2772 Listrophoroides pakistanicus sp. nov., description of 2772 in Pakistan 2772 against

Subject Hidex		521
Listrophoroides pakistanicus contd.	Louping ill	Lucilia cuprina contd.
on Tatera indica, in Pakistan 2772	virus	enzymes in 1382
Litomosoides carinii, in, Ornithonyssus	in	in Australia 16, 161, 162, 163, 164, 165,
bacoti, pathogenicity of 121	horse, infectivity of 712	168, 170, 175, 178, 179, 180, 181, 182,
littoralis, Spodoptera	Ixodes ricinus, infectivity of 712	
		183, 194, 779, 2174, 2199, 2718, 2832 in USA 1346
litura, Spodoptera Liver	sheep, in UK 1946	
	Louse (see Phthiraptera)	in USA (Hawaii) 480
bait component for, Monomorium	Louse infestations	in fowl carcasses, in Hawaii 480
pharaonis 693	in Asian buffalo 2250	insecticide resistance in
diet component for, Forcipomyia taiwana	in camel 1175	in Australia 168
418	in cat 1177, 2012	in Queensland 194
Liver powder, diet component for, Culex	in cattle 245, 258, 1177, 1742, 2015,	insecticide susceptibility in, effects of γ -
tritaeniorhynchus 3255	2290, 2291, 2525, 2853	irradiation on 888
Livestock	in dog 1177	life-span in, effects of chemosterilants on
arboviruses in, in Australia 2652	in donkey 1177	1609
arthropod parasites of, in Mongolia 1480	in fowl 340, 1177, 1493, 2013, 2564 in goat 344, 1177	mating in, effects of chemosterilants on 1609
arthropod pests of, in Australia 18, 19,	in guineafowl 1493, 2569	
2832	in horse 1177, 2855	nutrition of 166 on sheep
Culicoides spp. on, in Transbaikalia 1030	in man 34, 347, 348, 559, 768, 1135,	effects of skin structure on susceptibility
Diptera on, in Ukraine 1024, 1055	1142, 1147, 1174, 1178, 1498, 2014,	to 193
fly control on 199	2292, 2570, 2814	in Australia 164, 2832
insecticides for 1362	in pheasant 340	in New South Wales 175, 182
insect pests of	in pig 346, 802, 985, 1177, 1743, 1959	in Queensland 16
in Australia 2831	in pigeon 1495	in Victoria 2199
in Canada 782	in poultry 32	in Western Australia 165
pest control on 1480	in sheep 503, 1177, 2524, 2850	leakage of plasma proteins to skin
insect growth regulators for,	in zebu 2538	surface caused by 3039
implantable delivery systems for	Loxodonta africana, Ruttenia loxodontis on,	oviposition by, effects of bacteria on
2829	in Czech zoo 2451	174
Simulium spp. on, in Manitoba 3311	loxodontis, Ruttenia	resistance to 171, 176, 177, 178, 2718
S. reptans on, in Austria 3316	Loxosceles, on man, effects of bites by	oosorption in 2702
Trypanosoma spp. in	1478	ovarian development in 2702
in Upper Volta 1304	Loxosceles laeta	oviposition in, disrupting of 166
in Zambia 1308	survival in, with minimal food 2785	parasites of, mortality caused by 480
Livestock farms, synanthropic flies in,	venom of, collecting of 523	population dynamics of, model 669, 1369
movement to towns of 900	Loxosceles reclusa	pteridines in 192
lividus, Ixodes	in USA 3430	rearing of, genetic breakdown of strains
Lizard	in basements, in Iowa 3430	during 1897
Eutrombicula batatas on, in Arizona 982	prey of 3430 venom glands in 304	retinal pigments in, effects of eye colour mutations on 2195
Leishmania spp. in, in Kenya 2972	venom of, immune serum to 2498	Lucilia cuprina dorsalis
Phlebotominae on, in Kenya 2972	Loxosceles vonwredei	control of, genetic 668
preying on, Ornithodoros amblus, in Peru	sp. nov., description of 2257	in Australia 668
275	in South-West Africa 2257	overwintering in 668
Lizard, sleepy (see Trachydosaurus rugosus)	Lucerne (Medicago sativa)	Lucilia eximia, in USA 1346
llanosmartinsi, Lutzomyia (Psychodopygus)	Lucerne hay, in cattle diet, effects on Musca	Lucilia illustris
llanosmartinsi, Psychodopygus (see	autumnalis in dung of 2441	control of, growth regulators for 464
Lutzomyia llanosmartinsi)	Lucilia	enzymes in 2712
Los los, in, man, in Gabon 861	control of, traps for 895	in Norway 2408
Locomotion	in New Caledonia 3339	in USA 1346
Blattella germanica 2557	in Norway 2408	in Yugoslavia 221
Periplaneta americana 1485, 2287	in Thailand 662	insecticide susceptibility in, role of
Locusta migratoria	wings in, morphometric characters of	microsomal oxidase in 2712
Echinonema cinctum in, development of	1352	mercury in, accumulation of 221
692	Lucilia bufonivora	methoprene in, development inhibition by
gut in, passage of proteins through 200	in Netherlands 222	464
Naja mossambica venom in, toxicity of	on Bufo bufo, in Netherlands 222 Lucilia caesar	on sheep, in Norway 2408 Lucilia sericata
200	in Norway 2408	angular acceleration compensation in
lonchaearum, Trichopria	in Yugoslavia 221	459
longiareolata, Culiseta	mercury in, accumulation of 221	control of, insecticides for 2507, 2707
longiceps, Enderleinellus	on sheep, in Norway 2408	enzymes in 2507
longicornis, Chrysops	Lucilia cuprina	in Australia 164, 165
longicornis, Damalinia (see Rhabdopedilon	behaviour in 166	in Poland 2707
longicornis)	chromosomes in, maps of 2202	in Romania 453
longicornis, Haemaphysalis	control of 162, 166, 176, 177, 178, 179,	in Switzerland 471
longicornis, Philonthus	180, 181, 2718	in UK 220
longicornis, Rhabdopedilon (Damalinia)	biological 3037	in USA 1346
longifrons, Dinopsyllus	chemicals for 170	in dog dung, in England 220
longiloba, Peromyscopsylla ostsibirica (see	cost of 163	in human cadavers, development of 3037
P. ostsibirica)	drying agents for 2174	in sheep dung, in Poland 2707
longior, Tyroglyphus (see Tyrophagus	economics of 1924	landing response in 1361
longion Typophogus (Typoglyphys)	genetic 167	movement detection system in 1361
longior, Tyrophagus (Tyroglyphus) longipalpa, Supella	insecticides for 183, 194, 757, 888, 1382, 1924, 2174	movement detectors in 2193 neurosecretory system in, effects of diet or
longipalpe, Simulium	testing of 169	3358
longipalpis, Glossina	lowering fleece moisture for 175	octopamine in, membrane depolarisation
longipalpis, Lutzomyia	pizzle dropping for 182	caused by 211
longipennis, Culicoides	cuticle in, effects of DOPA-decarboxylase	on cat, in Missouri 1346
longipennis, Hippobosca	inhibitors on 911	on rabbit, in Missouri 1346
longipes, Afrolabidocarpus	descriptions of 893	on sheep
longula, Hoplopleura	dieldrin in, effects on field performance of	in Australia 164
longus, Haematopinus	2435	in Poland 2707
Louisiana	dieldrin resistance in	in Switzerland 471
Amblyomma americanum in, natural	in Victoria 2199	in Western Australia 165
enemies of 2209	purposely linked to Y chromosome	parasites of, in Romania 453
Haematobia irritans in, natural enemies of 2209	2435	proctolin in, membrane depolarisation
Psorophora columbiae in, in rice-fields	diflubenzuron in, effects on chitin deposition of 911	caused by 211 Risella 17 oil in, leg paralysis caused by
3278	embryonic development in	1350
Tabanus spp. in, in hardwood forests	effects of moisture on 1909	sex ratio in 1599
2440	effects of temperature on 1909	sex-related differences in 1599

Lucilia sericata contd. sugar receptors in, effects of antitubulin drugs on 461 luculenta, Frontopsylla luggeri, Simulium lugubris, Coproica (see Leptocera lugubris) lugubris, Leptocera (Coproica) lugubris, Rhopalopsyllus lukoschusi, Promuricheyla lukoschusi, Pteromychirus (Tamiopsochirus) lukoschusi, Tamiopsochirus (see Pteromychirus lukoschusi) Lumicolchicine, in Lucilia sericata, inhibiting sugar receptors 461 lunatum, Sphaeridium luridus, Aedes Lutein epoxide (see β , ϵ -Carotene-3,3'-diol, 5.6-epoxy-5.6-dihydro-) luteocephalus, Aedes lutzi, Panstrongylus
Lutzomyia, in Venezuela 419
Lutzomyia amazonensis descriptions of 1258 in Brazil 1256 in Peru 1256, 1259 male of 1258 taxonomy of 1256 characters distinguishing L. davisi and 1258 Lutzomyia claustrei descriptions of 139, 2390 in French Guiana 139, 2390 on man, in French Guiana 139 on rodents, in French Guiana 139 taxonomy of characters distinguishing L. davisi and 2390 characters distinguishing L. robini and 2390 Lutzomyia davisi descriptions of 2390 in Brazil 2390 in French Guiana 2390 taxonomy of characters distinguishing L.

amazonensis and 1258 characters distinguishing L. claustrei and 2390 characters distinguishing L. robini and 2390 Lutzomyia flaviscutellata, in Peru 1259 Lutzomyia intermedia
in Brazil 2970
in artificial ecotopes 2970 Lutzomyia llanosmartinsi sp. nov., description of (in Psychodopygus) descriptions of 1258 in Brazil 1257 1257 in Peru 1257 on man, in Brazil 1257 Lutzomyia longipalpis bluetongue virus in, replication of 138 Pacui virus in, replication of 635 sandfly fever, virus in, not replicating 635 Lutzomyia olmeca bicolor host preferences in 2150 in Panama 2150 seasonal abundance of 2150 2150 Lutzomyia panamensis
host preferences in 2150
in Panama 2150 seasonal abundance of 2150 Lutzomyia paraensis, in Peru 1259 Lutzomyia robini sp. nov., description of 2390 in French Guiana 2390 Lutzomyia sanguinaria host preferences in in Panama 2150 2150 seasonal abundance of 2150 Lutzomyia trinidadensis habitats of 632 in Venezuela 632 on domestic animals, in Venezuela 632 on man, in Venezuela 632 Lutzomyia umbratilis biology of 2969 enzymes in 140 in French Guiana 140, 1154, 2969 in Peru 1259

Lutzomyia umbratilis contd. Leishmania spp. in, in French Guiana 2969 on Choloepus didactylus, in French Guiana 2969 man, in French Guiana 140 on Potos flavus, in French Guiana 2969 on Proechimys, in French Guiana Lutzomyia vespertilionis host preferences in in Panama 2150 seasonal abundance of 2150 Lutzomyia yuilli pajoti in French Guiana 422 on man, in French Guiana 422 Luxembourg Ixodoidea in, bibliography 2751 Tabanidae in 449 tick-borne diseases in, bibliography 2751 luzonensis, Dirhinus lybacia, Laelaps Lychas in Zimbabwe 1428 on man, stings by 1428 Lycopersicon esculentum (see Tomato) Lyctocoris campestris in Switzerland 564 in Passer domesticus nests, in Switzerland 564 in Turdus merula nests, in Switzerland 564 on man, in Switzerland 564 Lymantria dispar, on man, hypersensitivity to 319 Lyme arthritis (see Arthritis, infectious) Lymnaea ovata, parasitised by, Sciomyzidae, in France 1349 Lymnaea stagnalis, parasitised by, Sciomyzidae, in France 1349 Lynx canadensis, Euhoplopsyllus glacialis on, in Alaska 2322 lynx, Euhoplopsyllus glacialis lynx, Hoplopsyllus glacialis (see Euhoplopsyllus glacialis lynx) Lynxacarus echinosorex, taxonomy of, transferred to Echinosorella Lynxacarus mustelae in Poland 323 on Mustela, in Poland 323 Lynxacarus talpae, taxonomy of, transferred to Dubininetta 2770 Lyperosia (see Haematobia) Lyperosia exigua (see Haematobia irritans exigua) Lyperosia irritans (see Haematobia irritans) Lyperosia titillans (see Haematobia thirouxi titillans) lypusus, Dinopsyllus L-Lysine in Aedes aegypti diet, utilisation of 2047 in Aedes togoi, utilisation by Brugia patei in Anopheles atroparvus, utilisation by Brugia patei of 68 in Anopheles stephensi, effects of Plasmodium berghei on 1199 Lysozid S (see Fenitrothion, with Lysozata S (see Felintrollion), with malathion, and pyrethrins)

Lysozyme, in Ornithodoros moubata, bactericidal activity of 2745

M-1960 (see Acetamide, N-butyl-N-phenyl-with 2-butyl-2-ethyl-1,3-propanediol, and phenylmethyl benzoate) Macaca arctoides, Cosarcoptes scanloni on, in New York State 3421 Macaca umbrosus Anopheles sundaicus on, in Andaman and Nicobar Islands 2058 Plasmodium cynomolgi in, in Andaman and Nicobar Islands 2058 Macaroni, naled in, uptake from air of 2266 macellaria, Callitroga (see Cochliomyia macellaria)
macellaria, Cochliomyia (Callitroga)
machadoi, Culex Macrobrachium raridens deltamethrin in, toxicity of 2982 in Upper Volta 2982 Macrocheles development in, effects of temperature on 660

in New Zealand region 3092

Macrocheles contd. in rodent nests, in Transbaikalia 1032 prey specificity in 931 preying on, Musca domestica, and biological control using 931 Macrocheles glaber in Hungary 2244 intraspecific competition in 930 Malpighian tubules in 926 preyed on by, Parasitus coleoptratorum ัดสก Macrocheles matrius, intrinsic rate of natural increase of 660 Macrocheles muscaedomesticae in New Zealand Island Territories 3092 in birds' nests, in Kermadec Islands 3092 intrinsic rate of natural increase of 660 Macrocheles penicilliger, intrinsic rate of natural increase of 660 Macrocheles peniculatus, intrinsic rate of natural increase of 660 Macrocheles perglaber, intrinsic rate of natural increase of 660 Macrocheles robustulus in New Zealand Island Territories 3092 in birds' nests, in Kermadec Islands 3092 intrinsic rate of natural increase of 660 Macrocheles subbadius, intrinsic rate of natural increase of 660 Macronychia, parasitising, Hybomitra lasiophthalma, in Texas 907, 2167 Macronychia aurata 907 Macronyssus, on bat, in Moldavia 1077 Macropodus cupanus feeding behaviour in 2351 preying on, Culex quinquefasciatus 2351 Macrostylophora, distribution of 1188 Macrostylophora hebeiensis sp. nov., description of 1188 in China 1188 on Trogopterus xanthipes, in Hebei 1188 Macrostylophora microcopa, taxonomy of, characters distinguishing M. paoshanensis and 818
Macrostylophora paoshanensis sp. nov., description of 818 in China 818 on Sciurotamias davidianus, in Yunnan 818 Macrothylacia rubi in Denmark 690 on man, osteitis caused by 690 on man, ostetis caused by 690
mactans, Latrodectus
maculata, Byssodon (see Cnephia maculata)
maculata, Cnephia (Byssodon)
maculata, Dolichovespula (Vespula)
maculata, Hippobosca (see H. variegata)
maculata, Triatoma
maculata, Triatoma
maculata)
maculata) maculata) maculatum, Amblyomma maculatus, Anopheles maculatus, Dermestes maculicornis, Tabanus
maculifrons, Vespula
maculipennis, Anopheles
Madeira, Culex molestus in 1240
maderae, Leucophaea magna, Daphnia magna, Sergentomyia africana Magnesium in Aedes aegypti, dependence of methenyltetrahydrofolate synthetase activity on 838 in Rhodnius prolixus, inhibiting salivary apyrase 1509 in Simulium breeding water 2666 magnifica, Wohlfahrtia Magpie (see Pica pica) Maine Prosimulium mixtum in, on man 425 Simulium spp. in, on man 425 S. penobscotensis in 1848 Maize (Zea mays) Maize-cob grits, bait component for, Cochliomyia hominivorax 2169 Maize meal, in rodent baits containing acaricides 1412 major, Phlebotomus major, Trichopria

Makisterones, immune sera to 787	Malathion contd.	Mali contd.
malaccensis, Cheyletus	against contd.	Simulium spp. in 1704
Malagasy Republic Ixodoidea in 3060	Xenopsylla cheopis 565, 1190 on Rattus 3188	Malic acid (see Butanedioic acid, hydroxy malikuli, Aedes
Sergentomyia berentiensis in, on man	formulations of 2361	Malloewia, gen. nov., description of 183:
2389	determining impurities in 526	Malloewia neglecta, taxonomy of,
Malaraeus penicilliger (see Amalaraeus	in Anopheles gambiae, not affecting	transferred from Siphonella 1832
penicilliger)	Plasmodium yoelii 824	Mallophaga
Malaria (see also Plasmodium)	in Anopheles maculipennis, effects on	blood-feeding in, evolution of 1170
book 2380 control of 829, 2285	behaviour of 95	control of 2525
in Brazil 1202	in Anopheles stephensi, not affecting Plasmodium yoelii 824	in Iraq 3142 in New Zealand 1494
in rural areas 326	in Bacillus thuringiensis, toxicity of 312	in Nigeria 2003
vector control for 86, 617, 624, 850,	in building materials, persistence of 2039	on Agelaius phoeniceus, in North
2054	in man, toxicity of 2952	America 4
in Afrotropical region 3195	in pastures, safety of 2952	on birds
in Andaman and Nicobar Islands 2058 in Brazil 1767	in pheasant, effects on blood of 2793 in poultry, toxicity of 32	in Hungary 2012 in Spain 340
in California 2080	in rat, toxicity of, effects of drugs on 750	on cattle, in Wyoming 2525
in China 2880	in ULV sprays, safety of 2952	on mammals, in Hungary 2012
in France 3198	on walls, persistence of 401	pathogens of, bibliography 2517
in French Guiana 1154	resistance to, in	Malta, Vespoidea in 1384
in India 2372 in Irian Jaya 1776	Aedes aegypti, in Puerto Rico 2136 Anopheles culicifacies	Maltase (see Glucosidase, α-) Maltose (see D-Glucose, 4-O-α-D-
in Italy 2128	in Andhra Pradesh 607	glucopyranosyl-)
in Nigeria 829	in Gujarat 2382	malyshevi, Gnus (see Simulium malyshevi
in Pakistan 617	A. sacharovi, in Turkey 76	malyshevi, Simulium (Gnus)
in Philippines 2804	A. stephensi	Mamestra brassicae
in Queensland 1552 in Saudi Arabia 623	in Iraq 2917 in Pakistan 1775, 2915	cell cultures from 1997 moulting hormones in, developmental
in South-East Asia 2822	Culex pipiens 2604	changes in 667
in South Korea 2122	C. quinquefasciatus 1221	Nosema algerae in, replication of 112
in Tamil Nadu 2373, 3217	development of 3269	Mammal nests, mites in, in USSR 1053
in Turkey 76	Culicidae	Mammals
in UK 3277 in Ukraine 1041	in Utah 3212	Anoplura on, in Saudi Arabia 2527
in USSR 86	overcoming of 2887 Musca domestica	Gamasoidea on, in Hungary 2244 Haemolaelaps spp. on, in Afrotropical
in 1978 1778, 1779, 1780, 1781	mechanisms of 1606	region 3422
review 2127, 3194	role of cuticular wax in 198	Ixodidae on, in Oklahoma 2465
Malassezia pachydermatis	Ornithonyssus sylviarum, in Israel 290	Ixodoidea on, in Morocco 3403
in Color No. 10	Stivalius cognatus, in Java 565, 1190	Mallophaga on, in Hungary 2012
Canis latrans, in New York State 2240	specifications for 526	microbial biocontrol agents in, safety of
Erethizon dorsatum, in New York State 2240	with fenitrothion, and pyrethrins, against, Alphitobius diaperinus, in fowl	2799 Phlebotominae on, in Panama 2150
Sarcoptes scabiei, in New York State	housing 687	Phthiraptera on
2240	with methoxychlor	in Afrotropical region, book 1177
Vulpes fulva, in New York State 2240	against	in New Zealand 1494
Malathion (diethyl [(dimethoxyphosphinoth-	Haematobia irritans, on cattle 1915	Siphonaptera on
ioyl)thio]butanedioate) against	Musca autumnalis, on cattle 1915 with pyrethrins, against, Musca domestica	in Alaska 2584 in Michigan 2585
Aedes aegypti 116, 412, 1245, 2133,	2191	in New Zealand 2312
2640	with trichlorphon, against, Culex pipiens	Trombiculidae on, in Indiana 1966
in cemeteries 3247	2604	Mammals, small
A. africanus 2918, 2919	malayi, Hylopecheyla	Acari on, in Czechoslovakia 933
A. pseudoscutellaris 412 A. vexans 2040	Malaysia Aedes aegypti in 1245, 1800	Anoplura on, in USSR 2571 arthropod parasites of
Anopheles spp. 2039	A. albopictus in 1245	in Maritime Territory 491
A. annularis 1775	Anopheles balabacensis in 2055	in USSR 1046
A. atroparvus 75	A. donaldi in, in dwellings 1799	Astigmata on, in South Dakota 511
A. culicifacies 103, 617, 1775, 2382,	A. letifer in 598	Babesia microti in, in England 971
3218 A. maculipennis 2911	arboviruses in 1246 Austroglycyphagus spp. in, in house dust	ectoparasites of, in Scandinavia 2338 Gamasoidea on, in Bulgaria 1659
A. nigerrimus 1775	1000	Haemanhysalis iaponica on, in Maritime
A. pulcherrimus 1775, 2917	Cheyletidae in 2771	Haemaphysalis japonica on, in Maritime Territory 2734
A. quadrimaculatus 1193	Chrysomya bezziana in, on man 2170	Hoplopleuridae on, in Burma 1496
A. sacharovi 76, 2917	dengue hemorrhagic fever in 1245, 2130	Hystrichopsyllidae on, in Morocco 318
A. stephensi 617, 2640	ectoparasites in 2803 Leptotrombidium spp. in	Ixodes trianguliceps on, in England 97
in dwellings 2912 A. subpictus 1775, 2640	in oil-palm plantations 725	Mesostigmata on, in Czechoslovakia 2232
Armigeres subalbatus 2640	rickettsiae in 2812	mites in nests of, methods for studying
Blattaria 788	L. umbricola in, on Rattus 1974	930
Boophilus microplus, on cattle 2746	Mansonia bonneae in 413	Nosopsyllus spp. on, in USSR 3179
Chironomidae 3346	M. dives in 413	Peromyscopsylla silvatica on, in Siberia
Culex molestus 75, 401	Myobiidae in, on rodents 2483	1052 Siphonaptera on
C. pipiens 2040 C. quinquefasciatus 2640, 2913	Schoengastia vieta in, on rat 513 Tabanidae in 2808	in Pyrenees 2340
in pig waste 374	Trombiculidae in 2811	in Scandinavia 2340
C. sitiens 2640	in oil-palm plantations 1973	in Siberia 3184
C. tritaeniorhynchus 2640	on Rattus 1412	in USSR 2871
C. whitmorei 2640	Whartonia dewitti in, on Rhinolophus	tick-borne encephalitis, virus in, in USSI
Culicidae 383, 2122, 2361, 3209	730	716 Trombiculidae on
Culicoides mississippiensis 1842 Goniocotes gallinae, on poultry 32	zebu in, arthropod pests of 2538 malaysiensis, Austroglycyphagus	Trombiculidae on in Africa 1660
Mansonia bonneae 413	malaysiensis, Austrogrycyphagus malaysiensis, Myobia	in Bulgaria 1664
M. dives 413	Maldives	mammilifer, Culex
Menopon gallinae, on poultry 32	Anopheles subpictus in 2127	Man
Musca domestica 528, 1893	A. tessellatus in 2127	Acarus siro on, role in colitis of 980
Ornithodoros lahorensis 3410	malaria in 2127	Aedes spp. on, in Gambia 393
Pediculus capitis 345 on man 559	Mali Glossina morsitans in 2996	A. aegypti on in Nigeria 1230
Psorophora columbiae 1193	G. palpalis in 2996	in Thailand 82
Stivalius cognatus, on Rattus 3188	G. tachinoides in 2996	not affected by cystic fibrosis 621
Triatominae, in dwellings 807, 1137	mites in, in house dust 3094	A. africanus on, in Nigeria 1230

Man contd.

Man contd. Aedes contd. A. albopictus on in Hawaii 1796 in Thailand 82 A. daitensis on, in Ryukyu Islands 2947 A. luteocephalus on, in Nigeria 1230 A. sierrensis on, feeding by 2100
A. sierrensis on, feeding by 2100
A. simpsoni on, in Nigeria 591
A. triseriatus on, in Wisconsin 29
A. vexans on, in USSR 2597 Amblyomma cajennense on, in Jamaica Anastrepha spp. on, in Costa Rica 1344 Anopheles spp. on, in Papua New Guinea A. balabacensis on, in Arunachal Pradesh 624 A. darlingi on, in Brazil 1793 A. donaldi on, in West Malaysia A. gambiae on, in Tanzania 183 A. merus on, in Tanzania 1836 1836 A. sacharovi on, in Azerbaijan 853 A. subpictus on, in Indonesia 1777 A. sundaicus on, in Andaman and Nicobar Islands 2058 A. takasagoensis on, in Taiwan 2070 Apis mellifera on Apis melinera on hypersensitivity to diagnosis of 1933, 3383 treatment of 2459

Araneae on, effects of bites by 1478 arboviruses in in Central Africa, review 1826 in tropics, review 1945 in West Africa, review 1826 Argas brumpti on, effects of bites by arthropod parasites of, skin diseases caused by 1148 arthropod pests of book 539, 1153 in Australia 18, 19
in Tasmania 533, 1720
arthropods on, hypersensitivity to 319
Babesia spp. in 396
review 940
B. microti in, in North America 3397 Blattaria on, hypersensitivity to 2132 Buthidae on, stings by 1428 Calyptra eustrigata on, feeding by 916 Carpoglyphus lactis on, in China 516 Ceratophyllus gallinae on, in Scotland 2341 Chagasia bonneae on, in Brazil 1769
Cheyletiella spp. on
dermatitis caused by 1965
in Japan 983 C. blakei on, transfer from cat of 288, C. parasitivorax on, transfer from rabbit of 288 hypersensitivity to 12
pruritus caused by 1417
transfer from dog of 1414
Chironomidae on, in USA 912
Chrysomya bezziana on, in West Malaysia
2170 C. yasguri on Cimex spp. on, antibodies to 562 Cladotanytarsus lewisi on, hypersensitivity to, diagnosis of 1596 Cochliomyia hominivorax on, in Netherlands Antilles 457 Cordylobia anthropophaga on furunculosis caused by 2417 in Ghana 1375 in Saudi Arabia 2537
Cosarcoptes scanloni on, in New York State 3421
Ctenocephalides orientis on 2837
Culversian as antibodies to 552 Culex spp. on, no antibodies to 562 C. ocossa on, in Panama 2923 C. panocossa on, in Panama 2923 C. panocossa on, in Fanama 2923 C. pipiens on, in Honshu 2908 C. quinquefasciatus on hypersensitivity to 2132 in Andhra Pradesh 2599 in Brazil 2383, 2655, 2656, 2657 Culicidae on in Argentina 400 in Bismarck Archipelago 833 in Panama 2283

Man contd. Culicidae on contd. in Ryukyu Islands 1217 in South Africa 84 prurigo caused by 1764 Culicoides spp. on in Colombia 2156 in South Africa 84 in Transbaikalia 1030 C. occidentalis on, in California 2385 C. paraensis on, in Brazil 2655, 2656, 2657 C. phlebotomus on, in Trinidad 2386, 2387 C. subimmaculatus on, in Queensland Cuterebra fontinella on, in Ontario 155 Cydistomyia emergens on, in South Africa 2716 DDT in, uptake through skin of 292 Demodex spp. on effects of 726 role in blepharitis of 1666

D. folliculorum on, blepharitis caused by 1415 Dermanyssus americanus on, dermatitis caused by 1670

D. gallinae on, rash caused by 2242 Dermatophagoides spp. on, hypersensitivity to 923, 2489 D. farinae on hypersensitivity to 991, 1420, 3108, diagnosis of 723, 989, 990 seasonal variation in 2227 treatment of 1426 D. pteronyssinus on antibodies to 1955 hypersensitivity to 520, 724, 769, 1654, 1958, 1975, 2492, 3109, 3110, 3111, 3112 diagnosis of 989, 990, 992, 1419 treatment of 739, 1426, 2763 Diptera on, in Ukraine 1024, 1055 ectoparasites of in Indonesia 2802 in Thailand 2805 in West Malaysia 2803 Euroglyphus maynei on, hypersensitivity to 923 Eutrombicula batatas on, in Arizona 982 Formicidae on, hypersensitivity to 2132 Glossina morsitans on, in Gambia 1317 Glossina morsitans on, in Gamoia 137.6 G. palpalis on in Congo 2994 in West Africa 1873 G. tachinoides on, in West Africa 1873 Haemagogus spp. on, in Brazil 2627 Heteroptera on, in central Europe 803 house-dust mites on, hypersensitivity to, diamois of 3420 diagnosis of 3420 Hymenoptera on hypersensitivity to 1930 diagnosis of 1389, 2455 stings by 3052 Hypoderma spp. on, diagnosis of insect fauna as affected by 2000 652 insect pests of in Australia 2831 in Canada 782 insect stings in, large local reactions to 1630 insecticides in, poisoning by Ixodes dammini on, in USA 269 Ixodidae on, in Connecticut 1398 Ixodoidea on, disease transmission by 2316 Latoia vivida on, urticaria caused by 485 Latrodectus mactans on, bite by, treatment of 3113
Lepiselaga crassipes on, in Brazil 2187 Leptoconops foulki on, in California Lutzomyia claustrei on, in French Guiana L. Ilanosmartinsi on, in Brazil 1257 L. trinidadensis on, in Venezuela 632 L. umbratilis on, in French Guiana 140, 2969 Lyctocoris campestris on, in Switzerland malathion in, toxicity of 2952 Mansonia africana on, in Gambia 393

mites on, in Argentina 984

Musca domestica on, hypersensitivity to 2132 myiasis in, diagnosis of 2453 Neotrombicula autumnalis on, in Belgium 2762 occupational exposure to pesticides in 1684 Oeciacus vicarius on, effects of bite by 44 Onchocerca volvulus in, Simuliid transmission of 2398 Ornithodoros amblus on, effects of bite by 275 Ornithonyssus sylviarum on, dermatitis caused by 1672
Paederus sabaeus on, dermatitis caused by 3049 Pediculus capitis on in California 1498 in England 1147 in Italy 768, 2014, 2570 in Netherlands 1178 in New Zealand 559 in Switzerland 11 in UK 347, 1142 P. humanus on dermatitis caused by in Egypt 2292 in England 1147 in Switzerland 1174 in UK 1142 permethrin in, residues of 2292 pest control on, treated clothing for 1763 pesticides in, acceptable daily intakes of 3128 phenothiazine in, toxicity of 1012 Phlebotominae on in French Guiana in Panama 2283 in Peru 1259 Phlebotomus argentipes on, in West Bengal 1845 Piophila casei on, in Belorussia 884 Prosimulium karibaense on, in Hokkaido 1583 P. mixtum on, in Maine 425 Psorophora ferox on, in Connecticut 1208 Pthirus pubis on effects of 34 in England 1147 in Pennsylvania 117 in Switzerland 1174 in UK 1142 on eyelashes 2814 on head 348 Pyemotes tritici on, dermatitis caused by P. ventricosus on, dermatitis caused by 1657 P. zwoelferi on, dermatitis caused by 1967 Rhinoestrus purpureus on, in USSR 654 Rhodnius pallescens on, in Panama 2576 Sarcophaga carnaria on, hypersensitivity to 769 S. incisilobata on, in Czechoslovakia 897 Sarcoptes scabiei on antibodies to 1421, 2776 diagnosis of 514 during neonatal period immune system and 512 in England 1147 in Mexico 291 in New Zealand 518 in Sweden 1673 in Turkey 519 in Turkey 51 in UK 1142 in Zimbabwe 2006 pruritus caused by 1417 transfer from Asian buffalo of 3417 transfer from cattle of 2761 Scorpiones on cardiovascular effects of stings by 2256 in Spain 1427 myocarditis caused by 1007 Sergentomyia baghdadis on, in Assam 1260 S. berentiensis on, in Malagasy Republic 2389 S. shorttii on, in Assam 1260

Man contd.	Mansonella ozzardi contd.	Martes martes, Chaetopsylla matina on, in
Simulium spp. on	in contd.	Poland 51
distribution pattern of 3318	Lepiselaga crassipes, not developing	martini, Phlebotomus
feeding by 2981	1580	martinii, Culex
in Brazil 1269	man, in Trinidad 2386	Martinique (indexed under French West
in Colombia 2156	Mansonia amazonensis, not developing	Indies)
in Guyana 3318	1580	martinius, Anopheles
in Ivory Coast 2975	Simulium spp.	Marvex (see Dichlorvos)
in Maine 425	development of 2156	marxi, Ixodes
in Manitoba 3311 in Nigeria 2671	in Brazil 1580	Maryland, Vespa crabro in 1631 masamitsui, Tabanus
in Togo 1581	S. argentiscutum, in Brazil 2399 taxonomy of, characters distinguishing	mascarensis, Aedes
in Transbaikalia 1067	Onchocerca volvulus and 1580	mascittii, Phlebotomus
in Upper Volta 2672	Mansonia	Massachusetts
S. albivirgatum on, in Zaïre 1847	Brugia spp. in, transmission of 3225	bat dung in, arthropods in 2582
S. argentiscutum on, in Brazil 2399	control of, insecticides for 1708	Demodex cati in, on cat 279 Dermacentor variabilis in, rickettsiae in
S. decorum on, feeding by 2395	flight speed in 2363	967
S. exiguum on, in Colombia 638	in Argentina 400	human babesiosis in 3397
S. horacioi on, in Guatemala 1582 S. horokaense on, in Hokkaido 2665	in Cuba 849 in Gambia 2363	Ixodes dammini in, sporozoans in 1651
S. metallicum on, in Colombia 638	in Quebec 2881	Orchopeas caedens in, on Glaucomys
S. ochraceum on, uptake of microfilariae	on man, in Ukraine 1024	3182 Tabanus lineola in, in salt marshes 190
by 1584	parasitised by, water mites, in Quebec	T. nigrovittatus in, in salt marshes 190
S. tescorum on, in California 2664	2354	Mastigophora 1266, 3013, 3136, 3174
Siphonaptera on	Trypanosoma brucei in, transmission of	Leishmania 326, 420, 634, 764, 1084,
dermatitis caused by 2872	644	1086, 1154, 1254, 1255, 1260, 1261,
disease transmission by 2316	Mansonia africana	1576, 1688, 1844, 2148, 2150, 2530,
in Alaska 2584 in central Europe 820	in Gambia 393 on man, in Gambia 393	2536, 2969, 3308 L. donovani 132, 133, 134, 867, 2972
Sitophilus granarius on, hypersensitivity to	Mansonia amazonensis, Mansonella ozzardi	L. gymnodactyli 867
991	in, not developing 1580	L. major 867, 2146, 2147
Stenotabanus spp. on, in Brazil 2187	Mansonia annulifera	L. tropica 2535
Tabanidae on	control of	Leptomonas 2866, 2873
in Tadzhikistan 205 in Ukraine 1078	eliminating breeding places for 2057	L. pessoai 867
Tabanus spp. on, in Japan 1373	insecticides for 2057 in India 102, 2057	<i>Trypanosoma</i> 943, 1083, 1084, 1299, 1302, 1304, 1470, 1587, 1695, 1865,
tick-borne diseases of, review 3137	Mansonia bonneae	1866, 1867, 1868, 1874, 1877, 1879,
tick control on 711	control of, insecticides for 413	1886, 1887, 2150, 2993, 2994, 3006,
protective clothing for 1946	in Malaysia 413	3327, 3328
repellents for 1946	Mansonia dives	T. brucei 149, 644, 651, 875, 1298, 130
treated clothing for 1937 Triatoma infestans on, hypersensitivity to	control of, insecticides for 413 in Malaysia 413	1305, 1307, 1308, 1309, 1310, 1311, 1312, 1322, 1332, 1333, 1335, 1869,
3167	Mansonia perturbans (see Coquillettidia	1871, 1872, 1873, 3326
Trichodectes canis on, in Netherlands	perturbans)	T. congolense 153, 1085, 1114, 1298,
1135 Trombiculidae en in West Meleveie	Mansonia pseudotitillans	1301, 1303, 1305, 1306, 1307, 1308,
Trombiculidae on, in West Malaysia 2811	in Brazil 2898 Saint Louis encephalitis, virus in, in Brazil	1312, 1870, 2162, 2164, 2381 T. cruzi 36, 37, 38, 42, 326, 349, 351,
Trypanosoma brucei in	2898	352, 806, 807, 811, 812, 1137, 1154,
in Ivory Coast 1872	Mansonia uniformis	1474, 1504, 2017, 2020, 2295, 2296,
in West Africa 1869	control of	2299, 3138, 3172, 3173, 3176
T. cruzi in, oral infectivity of 2299 Tunga penetrans on	eliminating breeding places for 2057 insecticides for 2057	T. evansi 184, 1303, 1306, 2538 T. hedricki 2863
effects of 2865	in China 2349	T. melophagium 3357
in Brazil 48	in India 2057	T. rangeli 37, 813, 1181, 2020
in East Africa 52	in Japan 1217	T. simiae 1308
in Senegal 566 Tyrophagus longior on, role in colitis of	on man, in Ryukyu Islands 1217 mantchuricus, Megabothris advenarius	T. theileri 1298 T. vivax 1085, 1298, 1300, 1301, 1303,
980	marginalis, Culicoldes	1305, 1306, 1307, 1308, 1878, 2164,
Vespidae on, hypersensitivity to, diagnosis	marginatum, Hyalomma	2466
of 3383	marginatus, Dermacentor mariae. Aedes	Mastomys natalensis (see Praomys
Vespula spp. on arrhythmia caused by 915	Mariana Islands, Culicidae in 2117	natalensis) Mathematics, for biologists, book 2
hypersensitivity to 1386, 1634	Marigold, African (see Tagetes erecta)	matina, Chaetopsylla
Wuchereria bancrofti in, morphology of	Marigold, French (see Tagetes patula)	Mating disrupters, insect control using
605 Manduca sexta	maritimus, Ornithodoros Marituba virus, in, Culex quinquefasciatus,	1983 matrius, Macrocheles
control of	infectivity of 1524	matsoni, Chirorhynchobia
biological 118	Markets, Periplaneta americana in, in	Mattesia geminata, in, Solenopsis spp., in
growth regulators for 1453	Philippines 1727	Brazil 1627
on man, hypersensitivity to 319 manfredi, Raillietia	markhafneri, Geomydoecus marmoratus, Culicoides	mattogrossensis, Anopheles Mattresses, Dermatophagoides spp. in, in
manicata, Fannia	Marmota, Hybomitra turkestanica on, in	Uttar Pradesh 2773
Manihot esculenta (see Cassava)	Ukraine 1024	mauretanicus, Androctonus
Manitoba	Marmota caudata, Frontopsylla frontalis on,	Mauritania
Aedes trivittatus in, natural enemies of 622	in China 567 Marmota himalayana, Frontopsylla frontalis	Haemolaelaps spp. in 3422 Ixodoidea in, viruses in 704
Agelaius phoeniceus in	on, in China 567	Mauritia, Rhodnius prolixus in, in
arthropod parasites of 4	Marmota monax, Ornithodoros hermsi on,	Venezuela 37
arthropods in nests of 864	in Oklahoma 495	Mauritius
Culicidae in, viruses in 1809 Simuliidae in 3311	marshallii, Anopheles Marshland, Anopheles atroparvus in, in	heartwater in 958 insect pests in, natural enemies of 2824
Vespula germanica in 2460	England 3277	Linognathus stenopsis in, on goat 344
D-Mannose, in Dermacentor andersoni,	Marsupialia	medically-important arthropods in 3141
developmental changes in 1400	Atopomelidae on, in Neotropical region 286	Stomoxys nigra in 224, 444
Mannosidase, α-, in Stomoxys calcitrans 3030	Boopiidae on, in Western Australia 2565	in sugar-cane plantations 3036 maurus, Scorpio
manosus, Amphalius	Haemolaelaps spp. on, in Australia 3103	maximus, Cubanochirus
Mansonella ozzardi	Laelapinae on, in Western Australia	maynei, Euroglyphus
in Culicoides caprilesi, in Colombia 2156	1653 Phlebotominae on, in Panama 2150	mcgregori, Lasioseius Meadows, Culicidae in, in Missouri 3211
C. insinuatus, not developing 1580	Trombiculidae on, in Indiana 1966	Meat 3211
C. phlebotomus, in Trinidad 2386	Marten, pine (see Martes martes)	dichlorvos in, uptake from air of 2267

Meat contd. naled in, uptake from air of 2266, 2267 Meat products, insecticides in, residues of 16 Mebendazole (methyl (5-benzoyl-1*H*-benzimidazol-2-yl)carbamate) in Tribolium confusum, effects on Hymenolepis of 1625 Mecoptera, skeletal structures in 2332 medanensis, Suidasia (see S. pontifica) Medicago sativa (see Lucerne) mediocris, Ceratozetes meditabunda, Myospila mediterranea, Wilhelmia (see Simulium nseudeauinum) mediterraneum, Simulium (see S. pseudequinum) mediterraneus, Carcinus Megabothris advenarius in USSR 2871, 3389 on Rodentia, in Maritime Territory 3389 on small mammals, in USSR 2871 Megabothris advenarius mantchuricus ssp. nov., description of 567 in China 567 on Mus musculus, in Heilongjiang 567 Megabothris asio asio in USA 2304 on Rattus norvegicus, in Wisconsin 2304 Megabothris calcarifer in USA (Alaska) 2322 in USSR 2871 on Clethrionomys rutilus, in Alaska 2322 on Dicrostonyx groenlandicus, in Alaska 2322 on Microtus oeconomus, in Alaska 2322 on small mammals, in USSR 2871 Pasteurella tularensis in, in Alaska 2322 Megabothris quirini in USA (Alaska) 2322 on Microtus pennsylvanicus, in Alaska 2322 Pasteurella tularensis in, in Alaska 2322 Megabothris rectangulatus in USSR 2871, 3184 on small mammals in Siberia 3184 in USSR 2871 Megabothris sinensis sp. nov., description of 567 in China 567 on Apodemus speciosus, in China 567 Megabothris turbidus Hepatozoon erhardovae in, development of 2331 hosts of, adaptations to 1042 in Czechoslovakia 362 in USSR 1042, 1046, 1049 in Citellus citellus nests, in Czechoslovakia 362
megacephala, Chrysomya
megachela, Huabangsha
Megarthroglossus, taxonomy of 1750 Megaselia scalaris, eclosion pattern in megatoma, Attagenus (see A. unicolor) megistus, Panstrongylus megnini, Otobius Megoura viciae control of, insecticides for 2507 enzymes in 2507 melanimon, Aedes melanocephala, Triatoma melanocephalus, Cercyon melanocepnaus, Cercyon melanogaster, Drosophila melanoon, Anopheles melanops, Conchapelopia melanura, Culiseta melas, Anopheles Meleagris gallopavo (see Turkeys) Meles meles, Trichodectes melis on, in Hungary 2012 Melibiase (see Galactosidase, α-) Melinda in New Caledonia 3339 in Thailand 662 taxonomy of 3339 Melinis minutiflora, ticks as affected by

1722

melis, Trichodectes

Melittin in Apis mellifera venom, allergenicity of in rat, cardiovascular effects of 1929 melleus, Culicoides mellifera, Apis mellonella, Galleria Meloinae, in India 227

Melomys levipes, Guntheria buelowi on, in Papua New Guinea 3426

Melophagus antilopes, in Mongolia 3011

Melophagus kamtshaticus sp. nov., description of 446 in USSR 446 on *Ovis nivicola*, in USSR 446 Melophagus ovinus control of 2524 insecticides for 320 in France 320 in Saudi Arabia 2533 in USA 2524 on sheep in Wyoming 2524 mortality of 3357 2524 resistance to 666 role in back-rolling of 320 taxonomy of, characters distinguishing M. kamtshaticus and 446 Trypanosoma melophagium in, not pathogenic 3357 Melopsittacus undulatus (see Budgerigar) Menacanthus cornutus (see Gallacanthus cornutus) Menacanthus stramineus control of, insecticides for 2562, 2564 in Poland 2564 on fowl, in Poland 2564 survival of, away from host 2851 Meningitis, in man, caused by arboviruses Meningoencephalitis in man, caused by Rickettsia slovaca 1647 tick transmission of 924 Menopon gallinae
carotenoids in, and in fowl 800
control of, insecticides for 32, 2562, 2564 in India 32 in Poland 2564 on fowl, in Poland 2564 on poultry, in Haryana 32 survival of, away from host 2851 Menthol (see Cyclohexanol, 5-methyl-2-(1methylethyl)-)

Meoneura, in Czechoslovakia 3016 Meoneura freta, in Czechoslovakia 3016 Meoneura moravica sp. nov., description of 3016 in Czechoslovakia 3016

Mepacrine (N*-(6-chloro-2-methoxy-9-acridinyl)-N*, N*-diethyl-1,4pentanediamine) in Culiseta longiareolata, chromosome banding pattern produced by 388

Mepyramine (N-[(4-methoxyphenyl)methyl]N-2-pyridinyl-1,2-ethanediamine)
in cattle, suppressing hypersensitivity to
Boophilus microplus 1395 merceti, Comperia mercurator, Aedes Mercury
in Lucilia caesar, accumulation of 221
in Lucilia illustris, accumulation of 221
Mercury, (acetato-O)phenyl-, in Gambusia
affinis, toxicity of 2794
meridionale, Simulium
meridionalis, Gahrliepia
Meriones erythrourus, Leishmania major in,
infectivity for Phlebotomus papatasi of
2146 Meriones hurrianae, Listrophoroides decoratus on, in Pakistan 2772 Meriones libycus Leptotrombidium rheinwaldi on, in Morocco 1977 Ornithodoros alactagalis in nests of, in Azerbaijan 969

Meriones meridianus, Nosopsyllus laeviceps on, in USSR 815 Meriones persicus, Yersinia pestis in, in Iran 364 Meriones unguiculatus, Babesia divergens in, tick transmission of 277

Meriones vinogradovi, Yersinia pestis in, in Iran 364 Meristaspis, in Philippines 3416 Mermis, in, Simuliidae, in Guatemala 144 Mermithidae host specificity in 643 Glossina spp., in Ivory Coast 3320 insects 1134 book in USSR 1063 Simuliidae, in Newfoundland 643 Simulium spp., in Transbaikalia 1067 S. erimoense, in Hokkaido 2665 Tabanidae, in France 659 merus, Anopheles mesasiatica, Formica Mesobuthus eupeus pectinate organ in 305 taste organs in 3431 venom of 307 Mesocricetus auratus (see Hamster, golden) Mesocricetus brandti, Yersinia pestis in, in Iran 364 Mesocyclops leuckarti, in Nigeria 637 Mesocyclops leuckarti aequatorialis, in Nigeria 637 Mesomermis flumenalis
in, Simuliidae, in Newfoundland 643
taxonomy of, characters distinguishing M.
travisi and 2154 Mesomermis travisi sp. nov., description of (in Neomesomermis) 2154 in Simulium metallicum, in Costa Rica S. panamense, in Costa Rica 2154 Mesopsylla hebes, in Mongolia 2583 Mesostigmata in British Isles 302 on Bandicota bengalensis, in Burma 2478 on Rattus, in Burma 1962 on small mammals, in Czechoslovakia 933, 2232 on Suncus murinus, in Burma 2775 Mesostoma biology of 3229 preying on Culex tarsalis, in California Culicidae, in Nigeria 3229 Mesozoa, index-catalogue 3148
messeae, Anopheles
Metabrom (see Bromophos) Metacnephia (see Cnephia) maxillary sensilla in 3309

Metalistrophorus, taxonomy of, Tamiopsochirus as synonym of 2770 metallicum, Simulium metallicus, Aedes Metaparasitylenchus 3185 Metarhizium anisopliae against Culex quinquefasciatus 2641 Culicidae 3266 culture methods for 2641 Culex pipiens, pathogenicity of 596 Nosopsyllus fasciatus, pathogenicity of 1043 Tabanidae, in USSR 3336 Tabanus autumnalis development of infection with 1065 in Uzbekistan 445
parasexual cycle in 860
storage of 2641
virulence of, relation of polysaccharide degradation, early germination and Metepa (1,1',1"-phosphinylidynetris[2-methylaziridine]) in Musca domestica, effects on ovarian development of 473 Methane, sulfinylbis- (see Dimethyl sulfoxide) Methanesulfonic acid, ethyl ester, in Culex quinquefasciatus, mutations induced by 595 Methanimidamide, N'-(4-chloro-2-methylphenyl)-N,N-dimethyl- (see Chlordimeform)

Subject Index		52
Methanimidamide, N'-(2,4-dimethylphenyl)-	Methoxychlor contd.	Micromonospora chalceae, in, pigeon,
N-[[(2,4-dimethylphenyl)imino]methyl]-N-methyl- (see Amitraz)	in fish residues of 1274, 1276	interactions between <i>Ornithocheyletia</i> hallae and 922
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-	toxicity of 2980 in Plecoptera, toxicity of 2980	Micromys minutus, Trombiculidae on, in Bulgaria 1664
hexahydro-, 3-oxide (see Endosulfan)	in rivers	microplus, Boophilus
4,7-Methanoisobenzofuran, 1,3,4,5,6,7,8,8- octachloro-1,3,3a,4,7,7a-hexahydro- (see	distribution of 1272, 1277, 1278 effects on fish of 1284	Micropotamogale ruwenzorii, Gahrliepia pyriformis on, in Zaïre 2769
Isobenzan)	non-target effects of 1279, 1280, 1281,	Micropterna, preying on, Simuliidae, in
Methanospirillum, in, Periplaneta americana, in gut 29	1282 monitoring of 1283, 1292	Ukraine 1055, 1059 Microsporida
1,3,4-Metheno-1 <i>H</i> -cyclobuta[<i>cd</i>]pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-	residues of 1273, 1275, 1276 in Salmo gairdneri, toxicity of 1285	in Culicidae, in USSR 1038
dodecachlorooctahydro- (see Mirex)	with malathion	forest pests, role in population dynamic
1,3,4-Metheno-2 <i>H</i> -cyclobuta[<i>cd</i>]pentalen-2- one, 1,1a,3,3a,4,5,5,5a,5b,6-	against Haematobia irritans, on cattle 1915	of 2839 Gambusia affinis, in California 2097
decachlorooctahydro- (see Chlordecone) 5,10-Methenyltetrahydrofolate	Musca autumnalis, on cattle 1915	insects 3136 medically-important arthropods,
cyclohydrolase (see Hydrolase, methenyltetrahydrofolate cyclo-)	Methyl-parathion (see Parathion-methyl) Methyldopa (3-hydroxy-α-methyl-L-tyrosine)	bibliography 2517 Simuliidae
Methionine sulfoxide (see Butanoic acid, 2-	against, Lucilia cuprina 1382	in Ukraine 1055, 1059
amino-4-(methylsulfinyl)-) L-Methionine	in Lucilia cuprina, effects on larval cuticle of 911	in USSR 1045 Simulium mediterraneum, in Ukraine
in Aedes togoi, utilisation by Brugia patei of 68	Metriocnemus hygropetricus biology of 2168	642
in Anopheles atroparvus, utilisation by	competing with, Psychoda alternata 2719	Solenopsis spp., in Brazil 1627 Tabanus autumnalis, development of
Brugia patei of 68 Methocarbamol (2-hydroxy-3-(2-	control of, insecticides for 2168, 2719 in UK 2168, 2719	infection with 1020 Microsporidium chironomi
methoxyphenoxy)propyl carbamate) in man, for treating bite by Latrodectus	in sewage systems, in England 2168,	sp. nov., description of 3342
mactans 3113	2719 rearing of, techniques for 2719	in, Chironomus attenuatus, in Florida 3342
Methomyl (methyl N- [[(methylamino)carbonyl]oxy]ethanimido-	mexicanum, Simulium	Microsporidium goeldichironomi sp. nov., description of 3342
thioate) against	Mexico acarologists in, directory 2269	in, Goeldichironomus holoprasinus, in Florida 3342
Culex pipiens 761	Amblyomma cajennense in, on cattle 1126, 1460	Microtatobiotes 278, 544, 924, 932, 1680,
Musca domestica 761, 3018 anticholinesterase activity of 761	arthropod pests in 325	2741, 2745, 3137 Chlamydia 267
in mouse, toxicity of 761 selective toxicity of 761	Atopomelidae in 286 Boophilus microplus in 1461	Cowdria ruminantium 937, 945, 958, 3060
Methoprene (1-methylethyl (2E,4E)-11-	natural enemies of 1129	Coxiella burneti 803, 1688, 2470, 2747,
methoxy-3,7,11-trimethyl-2,4- dodecadienoate)	on cattle 1124, 1126, 1460, 1640 Chernetidae in, on <i>Neotomodon</i> 1458	2748, 3060, 3070, 3399 Cytoecetes phagocytophila 1396
against Aedes aegypti 1555	Cheyletiella parasitivorax in on guinea-pig 2774	Ehrlichia phagocytophila 946, 2212 Eperythrozoon ovis 2129
Aldrichina grahami 464 Blattella germanica 1015	on rabbit 2774 Chirorhynchobia matsoni in, on Anoura	Rickettsia akari 3070 R. conori 965, 2343, 3070
Boettcherisca peregrina 464	2243	R. montana 234, 967, 3065
Culex nigripalpus 371 C. pipiens 1754	Cochliomyia hominivorax in 456, 1464, 2429	R. mooseri 1043, 2320, 2321, 2479, 309 R. prowazekii 34, 3066, 3182
C. quinquefasciatus in pig waste 374	C. macellaria in 2429 Culex pedroi in 583	R. rhipicephali 3065 R. rickettsi 234, 965, 966, 967, 3065
in storm drains 2113 Culicidae 3209	Dermatophagoides pteronyssinus in, in house dust 1127	R. sibirica 1688, 2747, 3070, 3399 R. slovaca 271, 1647, 3399
Culicoides occidentalis 2385	entomologists in, directory 2269	R. tsutsugamushi 297, 1961, 2801, 2810
Lucilia illustris 464 Monomorium pharaonis 2726	Geomydoecus spp. in, on Thomomys 1171, 1492, 3164	2811, 2812, 3090 Rochalimea quintana 34
Musca domestica 464, 1015 Phormia regina 464	G. guadalupensis in, on Thomomys 2849 Hoplopleuridae in, on small mammals	Microtendipes, in rice-fields, effects of fertilizers on 1624
P. terraenovae 464 Psoroptes cuniculi 2767	1465 human babesiosis in 3396, 3397	microti, Glycyphagus microti, Hyperlaelaps
Sarcophaga crassipalpis 464	Plecia nearctica in 212	Microtrombicula kikuyuensis
S. similis 464 formulations of	Psoroptes cuniculi in, on rabbit 2774 Raillietia auris in, on cattle 1128	sp. nov., description of 1660 on Crocidura occidentalis, in Africa
baits 2726 sand, stability of 2112	Sarcoptes scabiei in, on man 291 Scorpiones in 1676	1660 Microtus
in Aedes aegypti, effects on vitellogenesis of 3268	Stomoxys calcitrans in, on cattle 1131 Suctarsonemus spp. in, on cattle 1462	Amphipsylla qinghaiensis on, in China 567
in Calliphora vicina	Suidasia pontifica in, on cattle 1462	ectoparasites of, in Scandinavia 2338
effects on nucleic acid synthesis of 3354	Triatoma barberi in, flagellates in 352 Xenopsylla cheopis in, on Microtus 1130	Peromyscopsylla silvatica on, in Siberia 1052
effects on protein synthesis on 3354 in Culex pipiens, effects of 1754	Mice (see Mouse) Michigan	Uropoda orbicularis on, in Poland 1655 Microtus agrestis, Siphonaptera on, in
in Musca domestica, inducing mixed function oxidase 909	Aedes spp. in 3231 A. vexans in, nematodes in 378	USSR 1049 Microtus arvalis
in Rhodnius prolixus, effects on follicle	Anopheles quadrimaculatus in, nematodes	Amphipsylla rossica on, development of
extracellular spaces of 1499 in synanthropic flies, development	in 378 Culicidae in 1807, 2368	2579 Dermacentor spp. on, in USSR 496
inhibition by 464 Methoxamine (α-(1-aminoethyl)-2,5-	mosquito control in 3209 Scathophaga stercoraria in	Felicola vulpis on, in Hungary 2012 Gamasoidea on
dimethoxybenzenemethanol) in rat, decreasing levarterenol release by	in cattle dung 2454 in pastures 2709	in Bulgaria 1659 in Crimea 993
Latrodectus antheratus venom 3115	Siphonaptera in 2585	Hoplopleura edentula on, in USSR 343
Methoxychlor (1,1'-(2,2,2- trichloroethylidene)bis[4-	Trixacarus caviae in, on guinea-pig 1979 Vespula germanica in 2460	Ixodes persulcatus on, no resistance to 1039
methoxybenzene]) against	Wyeomyia smithii in 587 Micraedes, taxonomy of 2903	Mesostigmata on, in Czechoslovakia 2232
Simulium arcticum 1270, 1271, 1272,	microcentrus, Apallates (Hippelates)	Pasteurella tularensis in, in USSR 496
1277, 1286, 1292 S. decorum 2980	microcentrus, Hippelates (see Apallates microcentrus)	Siphonaptera in nests of, in Czechoslovakia 362
Stomoxys nigra, on cattle 203 formulations of 2980	microcopa, Macrostylophora Microlichus, on Colinus virginianus, in USA	Siphonaptera on in USSR 1049
in Chironomidae, toxicity of 2980	2001	removal by host of 2342

```
Microtus arvalis contd.
    Trombiculidae on, in Bulgaria 1664
Microtus brandti, Siphonaptera on, in
      Transbaikalia 1026
Microtus canicaudus, Siphonaptera on, in
     Oregon 2586
Microtus mexicanus
Xenopsylla cheopis on, in Mexico 1130
Yersinia pestis in, resistance to 1130
Microtus ochrogaster, Myocoptes
musculinus on, in South Dakota 511
Microtus oeconomus
   Amalaraeus penicilliger on, in Alaska
        2322
   Megabothris calcarifer on, in Alaska
        2322
   Peromyscopsylla ostsibirica on, in Alaska
        2322
Microtus pennsylvanicus
   Babesia microti in, in North America
        3397
   Dermacentor variabilis on, in Connecticut
    Megabothris quirini on, in Alaska 2322
   Myocoptes musculinus on, in South
        Dakota 511
Microtus pinetorum, Glycyphagus microti
on, in New York State 1970
Microtus townsendii, Cuterebra grisea on, effects of 1340
Migration, Simulium damnosum 1850 migratoria, Locusta miki, Tabanus
militaris, Hydrotaea
Milk powder, diet component for, Musca
     domestica 3356
Milk production
   in cattle
      effects of biting flies on 3230
effects of blood-sucking flies on 1521
effects of Diptera on 223
      effects of Stomoxys calcitrans on 1131
Mimogaurax lancifer
   in Puerto Rico 3429
   parasitising, Latrodectus mactans, in
Puerto Rico 3429
Mimosa pudica, insecticidal activity of
mucilaginous seeds of 2601

Mimus polyglottos, Saint Louis encephalitis, virus in, in Jamaica 845

minax, Buthotus
minimus, Anopheles
minimus, Ceratozetella (see Ceratozetes
     minimus)
minimus, Ceratozetes (Ceratozetella)
minimus, Hydrobaenus (see Limnophyes
     minimus)
minimus, Limnophyes (Hydrobaenus)
Mining, Ixodidae as affected by 3411
miniopteris, Calcarmyobia
Miniopterus australis, Calcarmyobia
australasiae on, in Queensland 301
Miniopterus schreibersii
   Calcarmyobia miniopteris on, in Australia
        301
   Chiroptella anhuiensis on, in Anhui 294
Minnesota
   Aedes vexans in 600
   mosquito control in 3209
Vespula germanica in 2460 minor, Geomydoecus minor, Ixodes
minor, Palaeopsylla
minuta, Sergentomyia
minutus, Pteracarus
Mirex (1,1a,2,2,3,3a,4,5,5,5a,5b,6-
     dodecachlorooctahydro-1,3,4-metheno-
     1H-cyclobuta[cd]pentalene)
against, Atta spp. 758

Mississippi, Musca domestica in, in fowl dung 191

mississippiensis, Culicoides
Missouri
   Calliphoridae in 1346
   Culicidae in 3211
   Geomydoecus spickai in, on Geomys 33
mitchellae, Aedes
mitchelli, Odontacarus
Mite
   clearing and mounting of 1064
in New Zealand, common and scientific
names of 281
   in Nigeria 2003
```

```
in Thailand 2809
    in West Malaysia 2803
    in dwellings
        in Argentina 984
       in UK 331
    in house dust
       in Denmark 280
       in different climates 3094
       in Japan 727
in Peru 921
    in poultry housing, in England 1717
    mounting media for 1149
on Coleoptera, traps for 3380
    on game animals, in Africa, bibliography
    on Peromyscus maniculatus, reinfestation by 2002
    on Rodentia
       in Argentina 321
in Brazil 2491
    on small mammals, in Scandinavia 2338
    on Sorex, in Oregon 509
    on Sylvilagus floridanus, in Indiana 3145
    pathogens of, bibliography 2517
    predators of, defensive activity against
         926
    preparations of, remounting of 2485 preparing of, critical point drying 2768
 Mite infestations
   in Asian buffalo 2806, 3417
in budgerigar 288, 1663
in camel 3093
in canary 1413, 2759
in cat 279, 288, 296, 515, 983, 1414, 1965, 2806, 2837, 3104
in cattle 245, 521, 1128, 1462, 2525, 2761, 2806, 2837, 3102, 3427
in dog 12, 1414, 1417, 1665, 1965, 2766, 2806, 3418
in domestic animals 605, 1233
    in Asian buffalo 2806, 3417
    in domestic animals 695, 1333
in fowl 731, 1493, 1953, 2564, 2764,
2806
    in fur bearers
    in goat 988, 1658, 2806, 3102, 3105 in golden hamster 282, 1656 in guinea-pig 510, 1978, 1979, 1980,
         2774
   2/74
in guineafowl 1493
in horse 3091
in man 268, 288, 291, 512, 514, 518, 519, 726, 980, 982, 983, 1142, 1147, 1176, 1414, 1415, 1417, 1421, 1666, 1670, 1672, 1673, 1965, 1967, 2006, 2242, 2761, 2762, 2776, 3417, 3421
    in mouse
                   511
    in pig 9
2806
              985, 999, 1424, 1425, 1661, 1959,
    in poultry 290
in rabbit 288, 728, 740, 2248, 2687, 2774, 2806
    in pigeon 922
    in sheep 285, in zebu 2538
                   285, 503, 2524, 3101
mitis, Amphipsylla primaris
 mitis, Chrysops
 Mitonyssus molossinus
    sp. nov., description of 2238 in Suriname 2238
    in Venezuela
                          2238
    on Molossus
       in Suriname 2238
       in Venezuela
                              2238
Mitonyssus noctilio
    gen. et sp. nov., description of 2238 in Bolivia 2238
    in Suriname 2238
    in Venezuela 2238
on bats 2238
mixtum, Prosimulium
MK-933 (see Ivermectin)
Mockingbird (see Mimus polyglottos)
modestus, Culex
moesta, Aleochara
mokrzeckyi, Ceratophyllus
Molasses
    bait component for
       Musca domestica
        M. sorbens 477
    diet component for, Musca domestica
         3356
Mole, arthropod parasites of, in USSR
     1046
```

Mite contd.

```
Molecular structure-biological activity
     relationship
   alkanamides, insecticidal activity 2263
   DDT analogues, insect neurotoxicity
        3123
   fenvalerate isosteres
      insecticidal activity 1985
      mammalian toxicity 1985
   pyrethroids not containing cyclopropane
       ring, insecticidal activity
molestus, Culex
molestus, Culicoides
molitor, Tenebrio
Mollicutes 3081
Mollusca 9, 1454, 1543, 2942, 3148, 3296
Cionella lubrica 2727
   Clausilia 688
   Indoplanorbis exustus 2059
   Lymnaea ovata 1349
   L. stagnalis 1349
Nesovitrea hammonis
   Succinea elegans
S. putris 2198
                           1349
Molluscs
   Bacillus thuringiensis in, not pathogenic
       3296
   common names of, in Australia 1454
   in aquatic habitats, effects of pirimiphos-
methyl on 2942
index-catalogue 3148
molossi, Ophthalmodex
molossinus, Mitonyssus
Molossus, Mitonyssus molossinus on, in
South America 2238
Molossus molossus
   Mitonyssus molossinus on, in South
       America 2238
   Ophthalmodex molossi on, in Suriname
       1002
Monelata parvula
in Romania 453
   parasitising, Lucilia sericata, in Romania
       453
mongolensis, Basilia
Mongolia
   Cephalopina titillatrix in, on camel 1996
   Hippoboscidae in 3011
Hypodermatidae in 3011
   livestock in, pest control on 1480
Nycteribiidae in 3011
   Oestroidea in, on livestock Siphonaptera in 2583, 2870
                                        2691
Moniezia
   in
      medically-important arthropods,
          bibliography 2517
Scheloribates spp., in Cuba 738 Moniezia expansa, in, Hypozetes spp.
   Anopheles takasagoensis on, in Taiwan
       2070
   Atopomelidae on, in Neotropical region 286
Monkey, stumped-tailed (see Macaca arctoides)
Monocrotophos (dimethyl (E)-1-methyl-3-
     (methylamino)-3-oxo-1-propenyl
     phosphate)
   resistance to, in, Culex pipiens 2604
Monolayers (see Films, unimolecular)
Monomorium pharaonis 1479
   control of
      baits for 693, 2726
growth regulators for 272
insecticides for 693, 1140
low temperatures for 913
                                    2726
   use of pheromones in 229 in UK 1139
Monosulfiram (see Thiodicarbonic diamide ([(H<sub>2</sub>N)C(S)]<sub>2</sub>S), tetraethyl-)
Montana, Dermacentor andersoni in, rickettsiae in 3065
montana, Ascoschoengastia
montana, Hybomitra
montanus, Chrysops
monticola, Simulium
Moorland, Sepsidae in, in England 2456
moravica, Meoneura
Moraxella bovis, in, cattle, flies increasing
    susceptibility to
                           2200
Morellia saishuensis
   in Japan 1379
   on cattle, in Japan 1379
```

Morellia saishuensis contd.	Mouse contd.	Musca autumnalis contd.
seasonal abundance of 1379	tick-borne encephalitis, virus in,	in USSR 883
mori, Bombyx	pathogenicity of 3069	in cattle dung
Mormyrus lacerda, prey of, effects of	tick control on, immunization for 3390	effects of cattle diet on 2441
endosulfan on 3005	Trypanosoma cruzi in, oral infectivity of	effects of dung beetles on 2442
Morocco	2299	in California 1598
Coleoptera in, in cattle dung 3386	Mouse, deer (see Peromyscus maniculatus)	in USA 1932
Culicoides spp. in 3304	Mouse, field (see Apodemus sylvaticus)	intraspecific competition in 1598
C. circumscriptus in 1251	Mouse, western harvest (see	natural enemies of 454
Gasterophilus intestinalis in, on horse	Reithrodontomys megalotis)	on cattle
2166	Mouse, white-footed (see Peromyscus	
	leucopus)	in France 223
G. nasalis in, on horse 2166	Mouse, yellow-necked (see Apodemus	in German Federal Republic 465
Hystrichopsyllidae in, on small mammals	flavicollis)	in Kentucky 2430
3183	Mozambique	in Ontario 1915
Ixodoidea in 3403		in Wyoming 2525
Leptotrombidium rheinwaldi in, on	Glossina spp. in 1307 G. morsitans in 1861, 1862	increasing susceptibility to Moraxella
Meriones 1977	Ixodes donarthuri in 1404	bovis 2200
Scarabaeidae in, in dung 3385		pathogens of, bibliography 2517
Simuliidae in 2674	Scorpiones in 1678	seasonal abundance of 908
Tabanus darimonti in 3368	trypanosomiasis in 1307	sugar feeding preferences in 474
morsitans, Culiseta	mrciaki, Neopodocinum	Thelazia skrjabini in, in Dagestan 883
morsitans, Glossina	Mucor circinelloides, in, Culicidae, in USSR	Musca bezzii
morsitans, Simulium	1019	in Japan 1379
	Mucor fuscus, antigens of 1669	
mosambicensis, Parabuthus	Mucor saturninus, in, Culicidae, in USSR	on cattle, in Japan 1379
moschisuga, Haemaphysalis	1019	seasonal abundance of 1379
Moschus berezovskii, Haemaphysalis	muehlfeldi, Hybomitra	Musca domestica
moschisuga on, in Qinghai 265	muiscorum, Simulium	abstinons in
Mosquito (see Culicidae)	mularis, Tabanus	mating inhibition by 3324
Mosquito Beater, repellent for, Aedes	Mule (Equus caballus × E. asinus)	receptors for 3325
aegypti 2347	Dermacentor marginatus on, in Italy	activity in, recording of 2798
Mosquito iridescent virus, in, Aedes	3064	aging in 460
stramineus, histopathology of 3288	Oestroidea on, book 2691	allergens of 2132
Mosquitofish (see Gambusia affinis)	Mules' operation 178, 179, 181	Arctia caja toxin in, toxicity of 232
mossurizensis, Glossina austeni (see G.	multidentatus, Atyphloceras	as component of poultry feed 1623
austeni)	multispinosus, Odontopsyllus	attractants for 1073, 1983, 2700, 3371
Motacillidae	Muridae, Laelapinae on, in Western	attraction of 1360
arthropod parasites of, in Kirghizia 1033	Australia 1653	to hornet nests 1631
bacteria in, in Kirghizia 1033	muris, Ixodes	Bacillus thuringiensis exotoxins in, toxicity
moubata, Ornithodoros	muris, Liponyssoides	of 197
moucheti, Anopheles	Muritrombicula dali	bacteria in, in Brazil 479
Moulting hormones	gen. et sp. nov., description of 2246	biology of 3350
Aedes atropalpus 125	in China 2246	α-bungarotoxin in, binding of 2194
A. epactius × A. atropalpus 2595	on Rattus coxingi, in Yunnan 2246	chemical composition of, effects of diet on
Calliphora stygia 889	Murray Valley encephalitis (see	1364
C. vicina 667	Encephalitis, Murray Valley)	chemosterilants in, effects on ovarian
Leucophaea maderae 2546	Murutucu virus, in, Culex quinquefasciatus,	development of 473
Mamestra brassicae 667	infectivity of 1524	chromosomes in 1365
Ornithodoros moubata 270	Mus famulus, Huabangsha megachela on, in China 996	maps of 2202
Periplaneta americana 787 Rhodnius spp. 3175	Mus musculus	control of 199 antifeedants for 2796
R. prolixus 2856	arthropod parasites of, in Crimea 1060	baits for 528, 1360, 3017
Sarcophaga bullata 2173, 3360	Gamasoidea on, in Bulgaria 1659	biological 367, 931, 1895
S. crassipalpis 1611	Leishmania major in, not infective for	fumigants for 3124
Stomoxys calcitrans 2418	Phlebotomus papatasi 2146	growth regulators for 464, 466, 1015,
book 3144	Listrophoroides exilis on, in Pakistan	1368, 1372, 1449, 1453, 2428, 2436,
fluorometric analysis of 753	2772	3012
production in plant callus cultures of	L. pakistanicus on, in Pakistan 2772	insecticides for 191, 455, 467, 528,
3130	Megabothris advenarius on, in China	657, 749, 759, 761, 773, 1143, 1144,
Mounting media, for microarthropods 1149	567	1356, 1378, 1435, 1437, 1438, 1439,
Mouse (see also named species)	Myocoptes musculinus on, in South	1441, 1442, 1443, 1444, 1447, 1450,
Aedes triseriatus on, feeding by 577	Dakota 511	1479, 1601, 1893, 2191, 2261, 2264,
apamin in, effects on central nervous	Nosopsyllus fasciatus on, in USSR 2871	2265, 2502, 2508, 2516, 2536, 2703,
system of 2458	Siphonaptera on, removal by host of	3127, 3350, 3351, 3371
Arctia caja toxin in, toxicity of 232	2342	repellents for 3124
Bacillus sphaericus in, not pathogenic	Trombiculidae on, in Bulgaria 1664	traps for 895, 1360, 1479, 3371
1785	Trypanosoma cruzi in, in Mexico 352	coumaphos resistance in, role of cuticular
barbatolysin in, not lethal 231	Mus spretus, arboviruses in, in Spain 2233	wax in 198
Centruroides limpidus venom in, toxicity	Musa, Aedes simpsoni in axils of, in Nigeria	cuticle in, hydrocarbons in 2706
of 522	591	cytochromes in, variation in 2379
Connecticut virus in, pathogenicity of	Musca	DDT in, poisoning by 207
1408	eyes in, pigment migration in 1912	Dermatophilus congolensis in,
Culex pipiens on, in Honshu 2908	in Thailand 2805	transmission of 777
Culicoides variipennis on 628	in dwellings, in Assam 1595	development in, effects of temperature on
DDT in, effects on natural immunity of	Stephanofilaria assamensis in, not infective	660, 3356
1013	1891	diel activity pattern in 2452
Dermatophagoides farinae on,	wings in, morphometric characters of	diflubenzuron in, delaying toxic effects of
immunization against 1418	1352	fluorine compounds 1892
Forcipomyia taiwana on 418	Musca autumnalis	diflubenzuron resistance in, development
HCH in, effects on natural immunity of	biology of 454	of 466
1013	control of 454, 2425, 2525	ecdysterone bioassay using 3130
Hymenoptera venoms in, toxicity of	behaviour modification for 2447	Entomophthora apiculata in, in Nigeria
2205	biological 1932	202
Loxosceles reclusa venom in, effects of	genetic 2447	E. muscae in, infectivity of, effects of
immune serum on responses to 2498	growth regulators for 2436, 2829	humidity on 3031
Myocoptes musculinus on, reducing	insecticides for 1915, 2430, 2433, 2446	enzymes in 157, 206, 460, 748, 879, 909,
sensitivity to oxazolone 295	Heterotylenchus autumnalis in,	1213, 1371, 1448, 1606, 2171, 2795,
Nosema algerae in, infectivity of 747	development of, effects of host diet on	3343
Pogonomyrmex barbatus venom in,	3025	EPN in, metabolism of 206
toxicity of 231	in Canada 454, 1915	EPN resistance in, mechanisms of 206
Siphonaptera on, feeding apparatus for	in France 223	eyes in 2714, 3041
Theileria narra in development of 608	in German Federal Republic 465	isolating of pigment granules from
Theileria parva in, development of 698	in USA 454, 908, 1598, 1932, 2430, 2525	2448

```
Musca domestica contd.
                                                               Musca domestica contd.
   fertility in, effects of trichlorphon on
                                                                  parasites of contd.
       2176
                                                                     development of resistance to 2410
   flight muscles in, age-related changes in
                                                                     in North Carolina 1345
                                                                     mortality caused by 480
   fluorescence of, relation of linoleic acid
                                                                  parasitised by
                                                                     Muscidifurax raptor 472
Nasonia vitripennis 1608, 2201, 2410
       and 2172
   follicular atresia in 475
                                                                  parathion resistance in, genetics of 1365 pathogens of, bibliography 2517
   for converting animal wastes into
feedstuffs 2710
                                                                  permethrin resistance in
   furocoumarins in, effects of 317
   genitalia in, development of 1381
                                                                     development of 1356
   gynandromorphism in 665
Habronema muscae in, in Tamil Nadu
                                                                     in German Federal Republic 1356
                                                                  phosphogluconate oxidative pathway in 157
       2715
                                                                  photoreceptors in, sexual dimorphism in
   Hydatigera taeniaeformis in, persistence of 1900
                                                                       3041
   in Brazil 479
                                                                  population dynamics of 1479, 1595
   in German Democratic Republic 3350,
                                                                  predators of, capacity for increase of
                                                                  preyed on by
   in German Federal Republic 1356
                                                                     Staphylinidae 1057
  in India 1357, 1595, 2452, 2715
in Italy 657, 773
in New Caledonia 3339
                                                                     Stomorhina discolor, in New Caledonia
                                                                         3339
                                                                  pupae of, size and viability of 1074
  in Nigeria 202
in Saudi Arabia 2536
                                                                  pupariation in
                                                                     apariation in effects of caffeine analogues and metabolites on 188 effects of fractionated \gamma-irradiation on
  ni Saudi Arabia 2536
in Turkey 3017
in UK 467
in USA 191, 367, 455, 1345, 1631, 3012, 3019, 3371
                                                                         903
                                                                  pyrethroids in, poisoning by
Reoviridae in, RNA in 1925
   in USA (Hawaii) 480
   in abattoirs, in Brazil 479
                                                                  sex pheromone of
   in cattle farms, in Florida 367
                                                                     receptors for 3325 release sites of 874
  in cattle housing
in Florida 455
                                                                  responses to analogues of 1073
sex ratio in 1599
selecting for 1074
sex-related differences in 1599
     in German Federal Republic 1356
  in dwellings
     in Assam 1595
in Orissa 2452
                                                                  sterilisation of, chemosterilants for 673
                                                                  synergists in, effects on mixed function oxidase of 909
  in fowl dung
     in Indiana
                    3012
  in Mississippi 191
in pig farms, in Florida 367
                                                                  testes in, effects of γ-irradiation on 2720 tetrachlorvinphos resistance in, development of 1893
  in pig housing
in Florida 455
                                                                  thioacetamide in, development inhibition
      in German Democratic Republic 3350,
                                                                      by 3356
          3351
                                                                  tricarboxylic acid cycle in 157
  in piggeries, in UK 467
                                                                  trichlorphon resistance in, development of
  in poultry dung, in Hawaii 480 in poultry farms, in Turkey 301
                                                                      2176
                                        3017
                                                                  vision in 1621
  insect growth regulators in
                                                                  visual system in 682
     induction of mixed function oxidase by
                                                                  vitellogenesis in, effects of larval food
                                                                      deficiency on 2184
     transfer to eggs of 1368
                                                                  xanthene dyes in, toxicity of 3355
  insecticide bioassay using 2267
insecticide resistance in 1479, 2286
in German Democratic Republic 3350
mechanisms of 1606
monitoring of 1448
                                                               Musca domestica domestica
                                                                  attractants for 3018
                                                                  baits for 477, 3018
insecticides for 477, 1430, 3018
enzymes in 891, 1904, 2450
in Egypt 477
in India 3018
                                                                  control of
     role of enzymes in 879
  insecticide screening against 1682
  insecticides in
                                                                  in cattle farms
     acetylcholinesterase inhibition by 748
                                                                  in Delhi 3018
in Egypt 477
parasitised by, Aleochara moesta 3344
     induction of mixed function oxidase by
         909
  lipofuscins in 460
  malathion resistance in, role of cuticular wax in 198
                                                                  preyed on by
                                                               Aleochara moesta 3344
Philonthus longicornis 3345
Musca domestica nebulo (see M. d.
  Malpighian tubules in 3029
  marking of, radiophosphorus for 754
  mating in
                                                                   domestica)
     detecting of 754
effects of carbon dioxide on 2188
                                                               Musca domestica vicina (see M. d.
                                                                   domestica)
  mating success in, geographic variation in components of 3019
                                                               Musca hervei
                                                                  in Japan 1379
on cattle, in Japan 1379
  methoprene in, development inhibition by
                                                                  seasonal abundance of 1379
  mitotic recombination in 665
                                                               Musca sorbens
  mosaicism in 665
nervous system in 1347
                                                                  control of
 baits for 477
                                                                  insecticides for 477
in Egypt 477
in USA (Hawaii) 480
                                                                  in cattle farms, in Egypt 477
in poultry dung, in Hawaii 480
  orientation in 3043, 3044
                                                               Musca vetustissima
                                                                  in Australia 1353, 3035
  ovarian development in 475
  role of corpus allatum in 1910 ovaries in, effects of y-irradiation on 478 Panagrolaimus migophilus in, in Karnataka 1357
                                                                  in cattle dung, effects of rainfall on
population density of, estimating of
traps for 3035
                                                               Musca vitripennis
                                                                  in Bulgaria 902
  parasites of
     cold storage in host pupae of 472
                                                                  in cattle farms, in Bulgaria 902
```

```
muscaedomesticae, Macrocheles
 Muscalure ((Z)-9-tricosene)
attractant for, Musca domestica 1360,
           3018, 3371
    in Musca domestica cuticle 2706
    Musca domestica responses to 1073
    persistence of 3371
     with 13-methylheptacosane, attractant for,
           Musca domestica 2700
     with 13-methylnonacosane, attractant for,
          Musca domestica 2700
 Muscidae
    attractants for 1881
    book 322
    cocoons in 2196
    control of, insecticides for 223
helminths in, in Uzbekistan 316
in Azerbaijan 899
    in Canary Islands 1374
in China 1618
in Nigeria 2003
    in carrion, in Finland 3364
    nematodes in, in Dagestan 883
    on cattle
        in France 223
in Japan 1379
    preyed on by, Crabro advena 1923 repellents for 1881 taxonomy of 905
 Muscidifurax raptor
    cold storage in host pupae of 472 in USA 1345
    parasitising
 Lucilia cuprina 480
Musca domestica 472, 480
in North Carolina 1345
Muscimol (see 3(2H)-Isoxazolone, 5-
      (aminomethyl)-)
 Muscina, wings in, morphometric characters
             1352
 Muscoidea, parasitised by, Dirhinus spp., in Indian subregion 3056
 musculi, Myobia
musculinus, Myocoptes
musilator, Culicoides
Mustela frenata, Geomydoecus spp. on 33
 Mustela nivalis
    arthropod parasites of, in Poland 323
     Trichodectes mustelae on, in Hungary
 Mustela putorius, arthropod parasites of, in
      Poland 323
 Mustela sibirica, Chaetopsylla wenxianensis
on, in China 361
on, in China 361
mustelae, Lynxacarus
mustelae, Stachiella
mustelae, Trichodectes
mutans, Knemidokoptes
mutata, Chephia (Stegopterna)
mutata, Stegopterna (see Chephia mutata)
Mutatoxanthin (see β,β-Carotene-3,3'-diol,
5,8-epoxy-5,8-dihydro-)
Mutillidae
 Mutillidae
    in British Isles 691
m British Isles 691
parasitising, Glossina spp. 437
MV-678 (see Benzene, 1-(8-methoxy-4,8-dimethylnonyl)-4-(1-methylethyl)-)
Mycobacterium, in, Hyalomma anatolicum, persistence of 261
Mycoplasma gallisepticum in
    in
        Argas persicus
in Kabardino-Balkaria
            persistence of 1029
 Mydaea urbana, in China 1618
 Myianoetus dycei
    sp. nov., description of 2659
in Australia 2659
in Fiji 2659
    parasitising
Culicoides brevitarsis
            in Australia 2659
            in Fiji 2659
Myiasis
    diagnosis of 2453
in Bos taurus × B. indicus
in camel 1996, 2691, 3332
in cat 1346
    in catt 1346
in cattle 440, 441, 652, 653, 878, 1341,
1590, 1591, 1889, 2407, 2525, 2689,
2690, 2691, 3329, 3330
in dog 457
in donkey 2691
```

Myiasis contd.	Nairobi sheep disease contd.	Natural enemies contd.
in game animals 1888	virus contd.	of arthropods contd.
in goat 457, 2691	in contd.	Anopheles contd.
in horse 442, 2166, 2691	Rhipicephalus spp., in Kenya 1641	A. crucians 2046
in livestock 1480	Nairobi sheep disease viruses, taxonomy of	A. culicifacies 609
in man 155, 457, 652, 654, 884, 897,	1950	A. earlei 1197
1344, 1375, 2170, 2417, 2453, 2537	Nairovirus, taxonomy of 1950	A. gambiae 767
in mule 2691	Naja mossambica, venom of, oral toxicity to	A. maculipennis 1757, 2590
in pheasant 2186	insects of 200	A. punctipennis 1197, 1531
in pig 457	Naled (1,2-dibromo-2,2-dichloroethyl	A. walkeri 1197
in rabbit 1346, 3334	dimethyl phosphate)	Armigeres subalbatus 1215, 2031
in reindeer 2691, 3007, 3008	against	Bezzia spp. 2653
in sheep 16, 161, 162, 163, 164, 165,	Ctenocephalides felis, on dog 2028	Boophilus spp. 1643
166, 169, 170, 171, 174, 175, 176, 177,	Hypoderma spp., on cattle 2689	B. decoloratus 2468
178, 179, 180, 181, 182, 183, 193, 471,	in flea collars 2028	B. microplus 1129
779, 1924, 2174, 2199, 2408, 2524,	in foodstuffs, residues of 2266, 2267	Calliphora vicina 453
2691, 2707, 2718, 2832, 3039, 3331, 3335, 3349	Namibia (see South-West Africa) Nankor (see Fenchlorphos)	Chironomus attenuatus 3342 C. plumosus 1902
in zebu 2538	nanlingense, Leptotrombidium	Chrysomya chloropyga 202
Myobia malaysiensis	(Trombiculindus)	Chrysops spp. 3373
sp. nov., description of 2483	nanlingensis, Trombiculindus (see	Conchapelopia melanops 679
in Malaysia 2483	Leptotrombidium nanlingense)	Culex spp. 1019, 2354, 2622
on Chiropodomys gliroides, in Malaysia	Nannosciurus surrutilus	C. molestus 1757
2483	Leptotrombidium imphalum on, in	C. pipiens 1890, 2590
Myobia musculi	Philippines 2490	C. tarsalis 2115
in USA 511	Promuricheyla lukoschusi on, in	C. tritaeniorhynchus 99, 1226
on Peromyscus maniculatus, in South	Philippines 2480	C. vishnui 2031
Dakota 511	nanshanensis, Ceratophyllus	Culicidae 1025, 1038, 1537, 1783,
Myocarditis, in man, caused by scorpion	nanus, Gnathoncus	2359, 2931, 3207, 3229, 3254, 3284
sting 1007	2-Naphthalenamine, N-[4-(4-chlorophenyl)-5-	Culicoides spp. 3299
Myocoptes musculinus	imino-1,2,4-thiadiazolidin-3-ylidene]-	C. brevitarsis 2659
in USA 511	against 2504	Depressaria angustati 2617
on Microtus ochrogaster, in South Dakota	Culex pipiens 2504	Elgiva sundewalli 3373
on Microtus pennsylvanicus, in South	Periplaneta americana 2504 Naphthalene, dimethyl-, in Blattella	Fucellia capensis 2439 Glaucops hirsutus 659
Dakota 511	germanica tergal-gland secretion 784	Glossina spp. 437
on mouse, reducing sensitivity to	Naphthalene, trimethyl-, in Blattella	G. nigrofusca 3320
oxazolone 295	germanica tergal-gland secretion 784	G. pallicera 3320
on Mus musculus, in South Dakota 511	1-Naphthalenol, methylcarbamate (see	G. palpalis 3320
on Peromyscus maniculatus, in South	Carbaryl)	Goeldichironomus holoprasinus 3342
Dakota 511	Naphthenates, acaricidal activity of 955	Haemaphysalis flava 3085
Myodopsylla insignis	β-Naphthoflavone (see 1H-Naphtho[2,1-	H. longicornis 3085
in USA 2582	b]pyran-1-one, 3-phenyl-)	Haematobia irritans 2209
in bat dung, in Massachusetts 2582	1H-Naphtho[2,1-b]pyran-1-one, 3-phenyl-, in	Haematopota pluvialis 659
myonyssognathus, Laelaps	Calliphoridae, induction of microsomal	Hemipyrellia fernandica 202
Myospila meditabunda in UK 220	oxidase by 2712	Hybomitra spp. 156
	nasalis, Gasterophilus	H. auripila 659
in dog dung, in England 220 Myotis dasycneme, Acanthophthirius	Nasonia vitripennis	H. lasiophthalma 907, 2167
polonicus on, in Netherlands 734	biology of 1895 courtship in, role of pheromones in 2461	H. montana 659 Hydrotaea irritans 2182
Myotis lucifugus	hosts of, development of resistance in	Ixodes ricinus 3391
arthropods in dung of, in Massachusetts	2410	Latrodectus mactans 3429
2582	in USA 1345	Leptoconops foulki 415
Cimex brevis on, in Ontario 2863	mate selection in 1608	Lucilia sericata 453
Trypanosoma hedricki in, not infective	outbreeding in 1608	Mansonia spp. 2354
2863	parasitising	medically-important arthropods 2517
Myotis mystacinus, Acari on, in Uzbekistan	Calliphora vicina 2461	Musca autumnalis 454
1071	Musca domestica 1608, 2201, 2410	M. domestica 202, 1345, 1357, 3339
Myotis oxygnathus, Acari on, in Uzbekistan	and biological control using 1895	Natarsia punctata 679
1071	in North Carolina 1345	Nematocera 468
Myriophyllum spicatum	Phormia terraenovae 1895	Ornithodoros amblus 275
biting flies in decomposing piles of, in North Carolina 2723	Sarcophaga bullata 208, 1608 sex ratio in, adjustment of 208	Paregle spp. 453 Periplaneta americana 793
Tilapia zillii on, and biological control	nasutus, Rhodnius	Phlebotomus sergenti 2660
using, in California 2345	Natarsia punctata	Piophila casei 453
Myrmarachne platypalpus	habitats of 679	Polygenis tripus 3185
sp. nov., description of 793	in Poland 679	Rhipicephalus spp. 1643
in India 793	Stylocystis praecox in, in Poland 679	R. appendiculatus 2468
mimicking Camponotus 793	Natural enemies	Sepedon fuscipennis 3372, 3373
preying on	of arthropods	Sepsis albopunctata 1914
Periplaneta americana, in Punjab 793	Aedes spp. 1019, 1757, 2354	S. nitens 1914
Psychodidae, in Punjab 793	A. aegypti 65, 1215, 1247	Sigara ornata 2046
myrmecobii, Echidnophaga	A. albopictus 1215, 2031	Simuliidae 144, 643, 1045, 1055, 1059
Myrmicinae, preying on, Boophilus	A. alcasidi 1215, 2031	Simulium spp. 145, 429, 1067, 1268 S. angustitarse 1054, 1586
microplus, in Mexico 1129 Myxoma virus	A. cantator 2893 A. communis 88	S. argyreatum 1054
evolution of, effects of vector on 2324	A. detritus 58, 2937	S. aureum 1054
in	A. diantaeus 88	S. erimoense 2665
Echidnophaga myrmecobii, transmission	A. excrucians 2590	S. mediterraneum 642
of 46	A. flavopictus 588	S. metallicum 2154
rabbit	. A. geniculatus 2590	S. ornatum 1054, 1586
in Australia 2323	A. japonicus 2031	S. panamense 2154
in New South Wales 46	A. malikuli 2031	S. sanctipauli 1849
in UK 2324	A. pionips 88	S. soubrense 1849
Spilopsyllus cuniculi, transmission of	A. pullatus 88	Solenopsis invicta 1627
2323, 2324 Myzze persions control of insecticides for	A. punctor 88	S. saevissima 1627
Myzus persicae, control of, insecticides for 2507	A. taeniorhynchus 2077 A. togoi 397	Stomoxys calcitrans 1363 Supella longipalpa 1737
Nairobi sheep disease	A. togoi 397 A. trivittatus 622	Tabanidae 1617, 3040, 3336, 3347
virus	Amblyomma americanum 2209	Tabanus autumnalis 445, 1020, 2695
in	Anobium punctatum 1657	T. bromius 156, 2693
Amblyomma variegatum, in Kenya	Anopheles spp. 1019, 2354, 2622	T. nigrovittatus 1603
1641	A. arabiensis 767	T. rupium 659

Natural enemies contd.	Nematoda contd.	neocynipsea, Sepsis
of arthropods contd.	Heterotylenchus autumnalis 3025	Neogregarina, in, insects 3136
Tetanocera spp. 3373	Hexamermis glossinae 3320	Neohaematopinus laeviusculus
Tipula pomposa 2716	Howardula albopunctata 1914	in USSR 2571
Tityus serrulatus 3433	Hydromermis 88	on small mammals, in USSR 2571
Topomyia yanbarensis 2031	Isomermis 144	Neohaematopinus qadrii
Triatoma infestans 1474	I. lairdi 145, 434	sp. nov., description of 3165
T. sordida 1474	Litomosoides carinii 121	in Pakistan 3165
Triatominae 42	Loa loa 861	on Funambulus pennanti, in Pakistan
Tripteroides bambusa 2031	Mansonella ozzardi 1580, 2156, 2386,	3165
Uranotaenia spp. 2031	2399	Neohaematopinus sciuri
Vespinae 484	Mesomermis 144	in USA 1189
Vespula spp. 1631	M. flumenalis 2154	on Sciurus carolinensis, in Tennessee
in Mauritius 2824	M. travisi 2154	1189
pesticides in, non-target effects of 1987	Neoaplectana 2381	
of fish, Gambusia affinis 2097	N. carpocapsae 209, 1858	seasonal abundance of 1189
of molluscs 9	N. tabanivora 2693	Neohaematopinus sciuropteri, Rickettsia
of nematodes, Romanomermis culicivorax	Octomyomermis itascensis 1902	prowazekii in, transmission of 3066
3244	O. muspratti 3261	Neomesomermis flumenalis (see
of plants, Cicuta douglasii 2617	Onchocerca 1721, 2392, 2836	Mesomermis flumenalis)
Nauphoeta cinerea	O. cervicalis 630, 2650	Neomesomermis travisi (see Mesomermis
mate selection in 27	O. gibsoni 2654	travisi)
mating in 785	O. gutturosa 128, 585, 1841, 2381	Neomys, ectoparasites of, in Scandinavia
neurosecretory system in 2289	O. lienalis 128, 1852	2338
ovarian development in 2544	O. volvulus 5, 147, 637, 638, 870, 1111,	Neoparasitylenchus 3185
salivary glands in 333, 2477, 3158	1295, 1580, 1584, 1585, 1847, 1852,	Neoplasms, in man, caused by Tunga
axons associated with 2543	1869, 2151, 2398, 2534, 2671, 3310,	penetrans 2865
seducin in, site of secretion of 3160	3312, 3318	Neopodocinum mrciaki
symbiotic bacteria in	Panagrolaimus migophilus 1357	in Poland 729
effects of absence of 2545	Parafilaria multipapillosa 883	on Clethrionomys glareolus, in Poland
transovarial transmission of 2544	Pheromermis tabani 2695	729
ventilation in, effects of hemolymph pH	P. vernalis 2695	Neopsylla acanthina
on 1488	Physocephalus sexalatus 316, 689	in USSR 3389
wing-raising stimulant in 785	Romanomermis culicivorax 117, 377,	on Rodentia, in Maritime Territory 338
Nearctic region, Diptera in, book 2587	1227, 1229, 1538, 2089, 2610, 2916,	Neopsylla bidentatiformis
nearctica, Plecia	2932, 2934, 2954, 3206, 3244, 3261	in USSR 1026
Nearctopsylla pfitzeri	R. iyengari 92	on Microtus brandti, in Transbaikalia
sp. nov., description of 2867	R. nielseni 1817	1026
in USA 2867	Setaria yehi 2083	oviposition in 1026
on Blarina brevicauda, in Tennessee	Simondsia paradoxa 689	Neopsylla biseta
2867	Spirocerca lupi 3374	descriptions of 570
Nebraska Culicidae in, fungi associated with 2043	Splendidofilaria 1573	female of 570 in China 570
Geomydoecus nebrathkensis in, on	Stephanofilaria assamensis 1891 Strelkovimermis peterseni 1531	on Apodemus latronum, in Yunnan 570
Geomys 33	Strongyloides 1959	on Apodemus sylvaticus, in Yunnan 570
nebrathkensis, Geomydoecus	Thelazia 2200	on Neotetracus sinensis, in Yunnan 570
nebulo, Musca domestica (see M. d.	T. gulosa 883	Neopsylla pleskei orientalis
domestica)	T. rhodesi 316	in USSR 1026
Necrosis	T. skrjabini 883	on Microtus brandti, in Transbaikalia
in Bos taurus \times B. indicus, caused by	Trichinella spiralis 746	1026
Chrysomya bezziana 663	Trichuris 1959	oviposition in 1026
in man, caused by Demodex 726	Wuchereria bancrofti 102, 120, 121, 409,	Neopsylla setosa
Neem (see Azadirachta indica)	605, 1154, 1205, 1236, 1777, 1794,	in Czechoslovakia 362
nefarius, Tabanus	1795, 2048, 2138, 2589, 2599, 2600,	in USSR 1060
neglecta, Malloewia (Siphonella)	2801, 2888, 3223, 3293	in Citellus citellus nests, in
neglecta, Siphonella (see Malloewia	Nematodes in	Czechoslovakia 362 on Mus musculus, in Crimea 1060
neglecta) neglectus, Rhodnius	Culicidae 2837	seasonal abundance of 362
Neguvon (see Trichlorphon)	review 1783	Neopsylla sondaica
neivai, Rhodnius	insects	control of, insecticides for 565, 1190
Nematocera	book 1134	in Indonesia 565, 817, 1190
in Nearctic region, book 2587	defence mechanisms against 544	on small mammals, in Java 817
palpal sensilla in 3309	man, book 1153	Neopynamin (see Tetramethrin)
Nematoda 454, 544, 659, 1063, 1067, 1134,	medically-important arthropods,	Neoschoengastia, taxonomy of 1968
1153, 1783, 2258, 2517, 2665, 2837,	bibliography 2517	Neostylopyga rhombifolia, control of,
3147, 3185, 3194, 3284	Musca autumnalis 454	antifeedants for 317, 2796
Ascaris suum 1959	Muscidae, in Dagestan 883	Neotetracus sinensis, Neopsylla biseta on, in
Ascarops strongylina 689	index-catalogue 3147	Yunnan 570
Breinlia booliati 59, 1774	insect control using	Neotoma cinerea, Yersinia pestis in, in
Brugia 3225	non-target effects of 2258	California 2319
B. malayi 102, 1774, 2036, 2057, 2140,	review 1538, 2610	Neotoma floridana, Ixodes woodi on, in
2631, 2801, 2885, 2906, 2909	mosquito control using 3194	Oklahoma 495
B. pahangi 2036, 2631, 2885 B. patei 68	Neoaplectana in	Neotoma fuscipes, Acari in sleeping nests of in California 930
Chandlerella 1573	Galleria mellonella, culturing of 2693	Neotomodon, Chernetidae on, in Mexico
C. chitwoodae 2651	insects, book 1134	1458
Culicimermis schakhovii 1025	insect control using 2381	Neotrombicula autumnalis
Dipetalonema dessetae 59	Neoaplectana carpocapsae	in Belgium 2762
D. perstans 861	against	on man, in Belgium 2762
D. viteae 697	dung-breeding flies 209	Neotrombicula autumnalis autumnalis
Dirofilaria immitis 378, 600, 1786, 2083	Simulium verecundum 1858	biology of 1976
D. repens 101	S. vittatum 1858	in German Democratic Republic 1976
D. ursi 1296	Neoaplectana tabanivora	Neotrombicula japonica
Diximermis peterseni 1197	sp. nov., description of 2693	in Poland 323
Dracunculus medinensis 637	in	on Mustela, in Poland 323
Echinonema cinctum 692	Haematopota pluvialis, infectivity of	Neotrombicula pomeranzevi
Empidomermis riouxi 58 Fufilaria hartlettae 1573	2693 Tabanus bramius in Hkraina 2693	mouthparts in, functional morphology of 1674
Eufilaria bartlettae 1573 E. delicata 1573	life history of 2693	on Clethrionomys rufocanus, effects on
Gastromermis 145	Neocidol (see Diazinon)	skin of 507
Gongylonema pulchrum 316, 689	neocopei, Geomydoecus	Neotrombicula whartoni
Habronema microstoma 883	Neoculex, siphon index of, variation with	in USA 2001
H. muscae 2715	latitude of 77	on Colinus virginianus, in USA 2001

Duojeet Index		333
Neotrombicula zachvatkini	New York State	Nigeria contd.
in Bulgaria 1664	Aedes atropalpus in, in tyres 1195	Aedes contd.
in USSR 1046	Anopheles punctipennis in, natural	A. luteocephalus in, on man 1230
on small mammals, in Bulgaria 1664	enemies of 1531	A. simpsoni in 591
Neotropical region, Atopomelidae in 286	Coquillettidia perturbans in 1528	Amblyomma variegatum in, on cattle
Nepa, preying on, Simuliidae, in Ukraine	Cosarcoptes scanloni in	1108, 3415
1059	on Macaca 3421	Amyrsidea powelli in, on guineafowl
Nepa cinerea	on man 3421	2569
biology of 803	Crabro advena in 1923	Anopheles arabiensis in 765, 766, 829
in USSR 1055	Culicidae in 2933	natural enemies of 767
on man, in central Europe 803	natural enemies of 3254 viruses in 3246	A. gambiae in 765, 766, 829 natural enemies of 767
preying on, Simuliidae, in Ukraine 1055	Culicoides spp. in, on livestock 417	cattle in, arthropod pests of 245
Nepal	C. variipennis in 3301	Chrysomya chloropyga in, natural enemie
Amphipsylla spp. in, on Rodentia 3186	C. venustus in, on cattle 2965	of 202
Protomyobia nepalensis in, on Soriculus 1004	Culiseta melanura in 1528, 1529	Ctenocephalides canis in
nepalensis, Protomyobia	Dermacentor variabilis in	on goat 47
Neral (see 2,6-Octadienal, 3,7-dimethyl-,	on dog 278	on sheep 47
(Z)-)	rickettsiae in 278	Cuclotogaster occidentalis in, on
Nerol (see 2,6-Octadien-1-ol, 3,7-dimethyl-,	eastern equine encephalitis in 1528, 1529	guineafowl 2569
(Z)-)	Glycyphagus microti in, on Microtus 1970	Culex spp. in 602
Nesovitrea hammonis, preying on, Cionella	human babesiosis in 3397	Culicidae in, natural enemies of 1113, 3229
lubrica, and biological control using, in	insect collections in 3387	Cyclopoida in 637
France 2727	Sarcoptes scabiei in, yeast associated with	Demodex spp. in, on cattle 521
Netherlands	2240	fowl in, arthropod parasites of 1493
Acanthophthirius polonicus in, on Myotis	Sepedon fuscipennis in, natural enemies of	Glossina spp. in 1309, 1322, 1329
734	3372, 3373	G. palpalis in 2157
Blattaria in 1740	Sigara ornata in, natural enemies of 2046	G. tachinoides in 2157
entomology in 1719	Simulium jenningsi in 1855	guineafowl in, arthropod parasites of
Haemaphysalis punctata in, on sheep	S. venustum in 2666	1493
1410	S. verecundum in 2666	Haemolaelaps spp. in 3422
Hydrotaea irritans in, bacteria in 890	Siphonaptera in, on Glaucomys 1514 Tehenides in netural enemies of 3273	Hemipyrellia fernandica in, natural
Ixodoidea in, bibliography 2751 Lucilia bufonivora in, on Bufo 222	Tabanidae in, natural enemies of 3373 type specimens in State Museum 2276	enemies of 202 insects in
mites in, in house dust 3094	Wyeomyia smithii in 839	bibliography 1157
Ornithonyssus sylviarum in, in dwellings	New Zealand	check-list 1157
1135	Ceratopogonidae in 1252	malaria in 829, 3195
Parcoblatta spp. in, in dwellings 1135	Chironomidae in 1252	Musca domestica in, natural enemies of
Pediculus capitis in, on man 1178	Damalinia bovis in, on cattle 2290, 2291	202
Tabanidae in 449	Linognathus vituli in, on cattle 2290,	onchocerciasis in 2671
tick-borne diseases in, bibliography 2751	2291	Phthiraptera in, on fowl 2013
Trichodectes canis in, on man 1135	mites in, common and scientific names of	Simulium spp. in, on man 2671
Tunga penetrans in, on man 2865 Netherlands Antilles, Cochliomyia	Passeriformes in, arthropod parasites of	S. damnosum in 637 sleeping sickness in 1309, 1322
hominivorax in 457, 1132	801	tsetse control in 1097
neurotrichus, Eadiea	Pediculus capitis in, on man 559	vector control in 2003
Neurotrichus gibbsii	Phthiraptera in 1494	nigerianus, Cyclops (see Thermocyclops
Eadiea neurotrichus on	Rhabdopedilon longicornis in, on Cervus	infrequens nigerianus)
in British Columbia 2236	1172	nigerianus, Thermocyclops infrequens
in Washington State 2236	Rhipicephalus sanguineus in, on imported	nigerrimus, Anopheles
mites on, in Oregon 289	dog 1409	nigra, Boydaia
prey of 289 Nevada	Sarcoptes scabiei in, on man 518	nigra, Galumna
Geomydoecus spp. in, on Thomomys	Siphonaptera in on birds 2312	nigra, Schoenbaueria (see Simulium nigrum) nigra, Spalangia
1171	on mammals 2312	nigra, Stomoxys
G. idahoensis in, on Thomomys 31	Solenopotes burmeisteri in, on Cervus	nigra, Trichopria
New Brunswick	1172	nigrescens, Tabanus
Coquillettidia perturbans in 2045	New Zealand Island Territories	nigricans, Formica
Ixodoidea in, on small mammals 720	Ceratopogonidae in 1252	nigricornis, Gasterophilus
Tabanidae in 2197	Chironomidae in 1252	nigricornis, Hybomitra
New Caledonia	Macrocheles spp. in, in birds' nests 3092	nigricorpa, Hybomitra
Boophilus microplus in, on cattle 3068	Newcastle disease	nigripalpus, Culex
Calliphoridae in 3339 New Hebrides, Boophilus microplus in, on	virus in	nigripes, Chrysomya nigripes, Chrysops
cattle 3061	Aedes aegypti, infectivity of 2817	nigripes, Chrysops nigritarse, Simulium
New Jersey	A. albopictus, infectivity of 2817	nigroaenea, Spalangia
Culex salinarius in 3292	Newfoundland	nigrofusca, Glossina
mosquito control in 3207, 3208	insect pests in 782	nigrovittatus, Tabanus
New Mexico	Simuliidae in 1854, 3313	nigrum, Simulium (Schoenbaueria)
Amitermes wheeleri in, in cattle dung	natural enemies of 643	Nimidane (see Benzenamine, 4-chloro-N-1,3-
2729 Geomydeaus ann in an Thomasys	Wyeomyia smithii in 98	dithietan-2-ylidene-2-methyl-)
Geomydoecus spp. in, on Thomomys	Nexion (see Bromophos) ni, Trichoplusia	nipponicus, Aedes nitens, Anocentor
G. guadalupensis in, on Thomomys 2849	Nicaragua	nitens, Sepsis
Gnathamitermes tubiformans in, in cattle	Anopheles albimanus in 2127	nitidifrons, Hybomitra
dung 2729	malaria in 2127	nitidus, Anopheles
New South Wales	Nicrophorus, sex differences in 1626	nitidus, Bradycellus
Culicidae in, viruses in 2033	nidi, Haemogamasus	nitidus, Polygenis
Culicoides brevitarsis in, viruses in 862	Niger	Nitrate, in Simulium breeding water 2666
Echidnophaga myrmecobii in, on rabbit	Glossina spp. in 1302	Nitrite, in Simulium breeding water 2666
46	G. morsitans in 1327, 1862 G. tochinoides in 1327, 1861, 1862	Nitrogen, as protective atmosphere for γ-
Haemaphysalis longicornis in on Bos indicus × B. taurus 3079	G. tachinoides in 1327, 1861, 1862	irradiation of Glossina 1100 Nitzschia actinastroides, Simulium ornatum
on cattle 3079	Onthophagus gazellus in 3376 Simulium spp. in 1704	feeding on 1293, 1294
Lucilia cuprina in 668	trypanosomiasis in 1302	niveus, Dermacentor
on sheep 175, 182, 2718	Nigeria	nivosus, Culicoides
Onthophagus granulatus in, in cattle dung	Aedes spp. in 602	No-Pest Strips (see Dichlorvos)
2728	in water containers 2895	Nocardia farcinica, in, Hyalomma
Psoroptes cuniculi in, on goat 3105	A. aegypti in 1194	anatolicum, transmission of 502
Raillietia manfredi in, on goat 3102,	on man 1230	nociva, Calliphora
3105 sheep in fly control on 163	A. africanus in 1194, 2918, 2919	Noctilio labialis, Mitonyssus noctilio on, in South America 2238
sheep in, fly control on 163	on man 1230	South America 2230

534 noctilio, Mitonyssus Nodamura virus assay for 1773 Aedes albopictus, pathogenicity of Culex quinquefasciatus, not pathogenic Toxorhynchites amboinensis, pathogenicity of 1773 nodosa, Sarcophaga noelleri, Simulium noelleri, Simulium
Nonacosane, 11-methyl-, with 4,5dimethylheptacosane, and cis-2-octyl-3tridecyloxirane, attractant for, Musca
domestica 2700
Nonacosane, 13-methyl-, with muscalure,
attractant for, Musca domestica 2700
2-Nonacosanone, 3,11-dimethyl-, Blattella
germanica responses to 549
2,6-Nonadienoic acid, 9-(3,3dimethyloxiranyl)-3,7-dimethylmethyl ester methyl ester in Aedes atropalpus, inducing ovarian development 2598 in Argas persicus, accentuating effects of precocenes 1393 in Leucophaea maderae hemolymph, age-related changes in 1732 in Ornithodoros coriaceus, accentuating effects of precocenes 1393 in Rhipicephalus sanguineus, accentuating effects of precocenes 1393 2,6-Nonadienoic acid, 9-(3,3-dimethylthiiranyl)-3,7-dimethyl, methyl ester, (2E,6E)-, not active as insect growth regulator 1988 2,6-Nonadienoic acid, 7-ethyl-9-(3-ethyl-3methyloxiranyl)-3-methylmethyl ester in Aedes aegypti, effects on vitellogenesis of 3268 in Aedes atropalpus, inducing ovarian development 2598 in Culex pipiens, inducing biting behaviour 1770 in Culex quinquefasciatus, inducing biting behaviour 1770 in Leucophaea maderae effects on DNA synthesis of 1732 effects on vitellogenin synthesis of 1732 effects on ovarian development of 2558 regulation of ovarian development by 24, 25 in Rhodnius prolixus, stimulating protein accumulation in accessory in Sarcophaga bullata, not overcoming vitellogenesis inhibition by abscisic acid 3360 2,6-Nonadienoic acid, 9-(3-ethyl-3-methyloxiranyl)-3,7-dimethyl-, methyl ester, in Aedes atropalpus, inducing ovarian development 2598 Noradrenaline (see Levarterenol) North Carolina Amblyomma americanum in 3059 animal waste lagoons in, insect fauna of 1814 Coleoptera in, in poultry dung 226 Culex quinquefasciatus in, in pig waste Culicoides spp. in, in decomposing
Myriophyllum 2723
Musca domestica in, natural enemies of Stomoxys calcitrans in, in decomposing Myriophyllum 2723 Tabanus spp. in, in decomposing Myriophyllum 2723

Northern Territory

1422

Norway

Culicoides brevitarsis in, natural enemies of 2659

Dasyphora spp. in 881
Ixodes uriae in, viruses in 702
Lucilia spp. in 2408

Pyrellia spp. in 881

Guntheria weedunnarti in, on Sminthopsis

Norway contd. Rhipicephalus sanguineus in, on dog 3400 Sarcoptes scabiei in, on pig 1424, 1425 Tabanidae in 1907 Nosema Culicidae 3136 Tabanidae, in USSR 1020 Nosema algerae against, Anopheles spp. 3136 Anopheles stephensi, effects of 3259 Culicidae, effects of 2633 Lepidoptera cell lines, replication of 112 mouse, infectivity of 747 mosquito control using 1539 Nosopsyllus, on small mammals, in USSR 3179 Nosopsyllus consimilis in USSR 1060 on Mus musculus, in Crimea 1060 Nosopsyllus fasciatus Beauveria bassiana in, pathogenicity of 1043 control of, inert dusts for 2578 Hepatozoon erhardovae in, development of 2331 in Argentina 321 in Czechoslovakia 3 in USA 2302, 2304 in USR 2871 362 in Citellus citellus nests, in Czechoslovakia 362 Metarhizium anisopliae in, pathogenicity of 1043 on Didelphis virginiana, in Oregon on Mus musculus, in USSR 2871 on nude hosts 2333 on Rattus norvegicus, in Wisconsin 2304 on Rattus norvegicus, in Wisconsin on Rattus rattus, in Argentina 321 on rodents, removal by host of 2342 Nosopsyllus iranus iranus in Iran 364 Yersinia pestis in, in Iran 364 Nosopsyllus laeviceps control of, insecticides for 2868 in USSR 815, 2868 olfactory system in evolution of 313 olfactory system in, evolution of 3132 on Meriones meridianus, in USSR on Rodentia, in Caucasus 2868 population age composition in 815 reproductive rhythm in 815 Nothobranchius, preying on, Anopheles spp., and biological control using 3194
Notoedres, taxonomy of, characters distinguishing Trixacarus caviae and 1978 Notoedres caniculi in Indonesia 2806 on rabbit, in Indonesia 2806 Notoedres cati in Indonesia on cat 2837 2806 in Indonesia 2806 Notoedres cati caniculi (see N. caniculi) Notoedres oudemansi descriptions of 2239 in Kenya 2239 on Erinaceus albiventris, in Kenya 2239 Notoedres ovatus sp. nov., description of 283 in Uganda 283 on Tadarida condylura, in Uganda 283 Notoedres tadaridae in Uganda 283 on Tadarida condylura, in Uganda 283 on Tadarida pumila, in Uganda 283 Notonecta glauca biology of 803 on man, in central Europe prey handling time in 1223 preying on Aedes aegypti Culicidae 1038 1223 Notonecta maculata

prey handling time in 1223

Notonectidae

preying on, Aedes aegypti 1223

in animal waste lagoons, effects of organic pollution on 1814

Notonectidae contd. in ponds effects of aquatic plants on 1243 effects of insect growth regulators on 3024 notoscriptus, Aedes Nova Scotia Coquillettidia perturbans in 2045 Haemaphysalis leporispalustris in 240 Ixodoidea in, on small mammals 720 Ixodoidea in, on small mammals Ixodoidea in, on small mammals 720 novoniveus, Aedes novus, Trichoribates noxius, Centruroides

NRDC 143 (see Permethrin)

NRDC 161 (see Cypermethrin, [1RS-[1 $\alpha(S^*)$,3 α]]-)

NRDC 161 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1 $\alpha(S^*)$,3 α]]-)

nubeculosus, Culicoides nubeculosus, Culicoides
Nuclease, deoxyribo-, in Vespa orientalis
venom, properties of 3051
Nuclease, ribo-, in Boettcherisca peregrina
fat-body, activation on pupation of Nucleotidase, 5'-, in Periplaneta americana antennae 3153 nudisensillum, Leptotrombidium Numida meleagris (see Guineafowl) Numida meleagris (see Guineafowl)

Numidilipeurus lawrensis tropicalis
in Nigeria 1493, 2013
nervous system in 1173
on fowl, in Nigeria 1493, 2013
on guineafowl, in Nigeria 1493
oviducts in, glandular cells in 2011
perioesophageal nephrocytes in 2852
vesicular apparatus in 2568
Numidilipeurus tropicalis (see N. lawren Numidilipeurus tropicalis (see N. lawrensis tropicalis) nuneztovari, Anopheles Nutgrass, yellow (see Cyperus esculentus) nuttalli, Laelaps Nuvan (see Dichlorvos) Nyctalus noctula, Acari on, in Uzbekistan Nycteribia quasiocellata, in Mongolia 3011 Nycteribiidae combs in, functions of 2309 in Mongolia 3011 on bats, in Karnataka 2697 Nycteriglyphinae, in bat dung, in Massachusetts 2582 Massachusetts 2582

Nycticorax nycticorax, Ophthalmognathus tenorioae on, in Hawaii 2237

Nyssorhynchus, chromosomes in 2899

Oak (see Quercus)

obliquus, Onthophagus

obscura, Pherbellia

obscuras, Anhadira obscurus, Aphodius obsoletus, Cercyon obsoletus, Culicoides Obuchovia auricoma (see Simulium auricoma) occidentalis, Buthotus minax occidentalis, Cuclotogaster occidentalis, Culicoides occidentalis, Haemogamasus occidentalis, Steatonyssus occitanus, Buthus Occupational diseases allergies to arthropods 2828 hypersensitivity to reared arthropods 319 Oceania, Sarcophagidae in 3337 **Ochotona** Genoneopsylla angustidigita on, in China 2864 G. thysanota on, in China 2864 Ochotona rufescens, Dermacarus ochotonae on, in Pakistan 2772 Ochotona thibetana Hystrichopsylla rotundisinuata on, in Yunnan 2580 Siphonaptera on, in Yunnan 568 ochotonae, Dermacarus ochraceum, Simulium Ocimum americanum, insecticidal activity of mucilaginous seeds of 2601
Ocimum basilicum, insecticidal activity of mucilaginous seeds of 2601 Ocimum sanctum insecticidal activity of extracts of 1561

oudjoor inden		9
Ocimum sanctum contd. insecticidal activity of mucilaginous seeds	Odontopsyllus quirosi contd. on Oryctolagus cuniculus, in France	Oligochaeta in ponds, effects of insect growth
of 2601 ocossa, Culex	2335 Oeciacus vicarius	regulators on 3024 preyed on by, <i>Procladius</i> spp., in Polan
Octacosane, 2-methyl-, in Musca domestica	control of 44	1917
octacosane, 3-methyl-, in Musca domestica	Fort Morgan virus in in Colorado 2219	Oman, Anopheles culicifacies in 613
cuticle 2706	transmission of 563	Omethoate (O,O-dimethyl S-[2-
Octacosane, 4-methyl-, in Musca domestica	in USA 44, 1749, 2219	(methylamino)-2-oxoethyl]
cuticle 2706 9,12-Octadecadienoic acid	on man, effects of bite by 44 on Passer domesticus, in USA 44	phosphorothioate) resistance to, in, Culex pipiens 2604
(9Z,12Z)- (linoleic acid)	on Petrochelidon pyrrhonota	Ommochromes, in insect eyes, isolating of
in Cular ninions dist, not normitting	in Colorado 1749 in South Dakota 1749	Omophron dentatum, in USA 415
in Culex pipiens diet, not permitting flight 3214	in USA 44	OMS-1 (see Malathion)
in Musca domestica, relation of age-	Tonate virus in	OMS-43 (see Fenitrothion) OMS-1697 (see Methoprene)
associated fluorescence and 2172 Octadecanoic acid, Ixodes attachment	in Colorado 1749 in South Dakota 1749	OMS-1804 (see Diflubenzuron)
stimulated by 1405	Oedemagena tarandi	OMS-1998 (see Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-
6,9,12-Octadecatrienoic acid, (6Z,9Z,12Z)-,	control of, insecticides for 3008	dimethyl-, cyano(3-
in Culex pipiens diet, permitting flight 3214	eggs of, attachment organ of 3333 in Finland 3007, 3008	phenoxyphenyl)methyl ester, $[1R-[1\alpha(S^*),3\alpha]]$ -)
9,12,15-Octadecatrienoic acid,	on reindeer, in Finland 3007, 3008	Onchocerca
(9Z,12Z,15Z)-, in Culex pipiens diet, not permitting flight 3214	Oestridae adaptive radiation in 2308	in Culicaides marksi transmission of
2,6-Octadienal, 3,7-dimethyl-	control of 2691	Culicoides marksi, transmission of 2836
against, Musca domestica 3124	insecticides for 1888	deer, in German Democratic Republi
repellent for, Musca domestica 3124 Tyrophagus putrescentiae alarm-	in Nigeria 2003 on game animals, in South Africa 1888	1721 Simuliidae, transmission of 2392
pheromone component 3425	on livestock, book 2691	Onchocerca cervicalis
(E)-, in acarid alarm pheromones 1652 (Z)-, in acarid alarm pheromones 1652	Oestroidea, on Sylvilagus floridanus, in USA 1155	in Culicoides nubeculosus
2,6-Octadien-1-ol, 3,7-dimethyl-	Oestromyia, in Tadzhikistan 154	infectivity of 2650
repellent for, Aedes aegypti 2347 (Z)-, Periplaneta americana responses to	Oestromyia leporina in Mongolia 3011	permitting replication of bluetongu virus 630
2540	life history of 443	Onchocerca gibsoni, in, Forcipomyia
formate, (Z)- in acarid alarm pheromones 1652	on Praomys natalensis, effects of 1336 Oestrus, in Tadzhikistan 154	townsvillensis, transmission of 2654 Onchocerca gutturosa
Tyrophagus putrescentiae alarm-	Oestrus ovis	culture methods for 2381
pheromone component 3425 6-Octenal, 3,7-dimethyl-, repellent for,	control of 2524 insecticides for 3331	Aedes aegypti, production of 585
Aedes aegypti 2347	in USA 2524	cattle
octodecimdentata, Tarsopsylla Octomyomermis itascensis, in, Chironomus	in USSR 3331 larvae of, weight distribution of 1339	distribution pattern of 128 in Sudan 1841
plumosus, in Ontario 1902	life history of 3331	Culicoides kingi, in Sudan 1841
Octomyomermis muspratti sex ratio in, effects of diet on 3261	on sheep development of 3335	C. nubeculosus, transmission of 128 Simulium griseicolle, in Sudan 1841
water quality as affecting 3261	in USSR 3331	Onchocerca lienalis
Octopamine (α-(aminomethyl)-4- hydroxybenzenemethanol)	in Wyoming 2524 pupal development in, effects of	in cattle, distribution pattern of 128
in Lucilia sericata, membrane	temperature on 1594	Simulium decorum, development of
depolarisation caused by 211 in Schistocerca gregaria, chlordimeform	Ofunack (see Phosphorothioic acid, O-(1,6-dihydro-6-oxo-1-phenyl-3-pyridazinyl)	S. pictipes, development of 1852
mimicking actions of 1431	O, O-diethyl ester)	Onchocerca volvulus
oculata, Bembix Odagmia ornata (see Simulium ornatum)	Ohio Aedes atropalpus in, in tyres 3251	control of, vector control for 5 development in, effects of temperature of
Odagmia variegata (see Simulium	Culicidae in, in woodland 1212	1585
variegatum) odibilis, Culicoides	Dermacentor variabilis in, rickettsiae in 234	forest strain of 147
Odocoileus hemionus, arthropod parasites of,	Dermatophagoides farinae in, on man	man
in Alberta 556 Odocoileus virginianus	Rocky Mountain spotted fever in 234	in Brazil 870 in Nigeria 2671
arthropod parasites of, in Alberta 556	Toxorhynchites rutilus in, in tyres 1196	in Saudi Arabia 2534
Demodex spp. on, effects of 2229 Ixodes dammini on	Trixacarus caviae in, on guinea-pig 1979 ohioensis, Atylotus	in Sierra Leone 1111 pathogenicity of, strain differences
in Connecticut 248	Oil palm (Elaeis guineensis)	3310
in North America 3397 Odonata	Oil-palm plantations Leptotrombidium spp. in, in West	Simuliidae, transmission of 2398 Simulium spp., transmission of 3310
in ponds, effects of aquatic plants on	Malaysia 725	S. albivirgatum, in Zaïre 1847
in rice-fields, in California 2093	L. umbricola in, in West Malaysia 1974 Trombiculidae in, in West Malaysia	S. decorum, development of 1852
preyed on by, Gambusia affinis, in	1412, 1973	S. exiguum, transmission of 638
California 2093 pyrethroids in, toxicity of 78	Oils against	S. horacioi, transmission of 3312 S. metallicum, transmission of 638,
taxonomy of 1719	Anopheles spp. 3194	3312
Odontacarus mitchelli sp. nov., description of 3426	Culicidae, in dairy-waste lagoons 2120 Okhotsk virus, in, man, antibodies to 1947	S. ochraceum development of 1295
in Papua New Guinea 3426	Oklahoma	transmission of 1585, 3312
on Rattus niobe, in Papua New Guinea 3426	Amblyomma americanum in 3059 on Bos indicus × B. taurus 1936	uptake from man of 1584, 2151 S. sanctipauli, transmission of 147
Odontacarus yosanoi	on cattle 1936	S. sirbanum, transmission of 147
in China 2760 on Rodentia, in Kiangsu 2760	Ixodes woodi in, on Neotoma 495 Ixodidae in, on wildlife 2465	S. soubrense, transmission of 147 S. yahense, transmission of 147
Odontopsyllus	Musca autumnalis in 908	savanna strain of 147
distribution of 2335 on Sylvilagus 2335	Ornithodoros hermsi in, on Marmota 495	taxonomy of, characters distinguishing Mansonella ozzardi and 1580
Odontopsyllus multispinosus	Tabanidae in 3015	vectors of 637
in USA 1155 on Sylvilagus floridanus, in USA 1155	on cattle 1899 oklahomensis, Geomydoecus	feeding sites of 3318 Onchocerciasis
Odontopsyllus quirosi	Oleo de Palma Rosa, repellent for,	epidemiology of, in West Africa 3310
in France 2335 in Spain 2335	Panstrongylus megistus, on rat 39 olgae, Coptopsylla	trypanosomiasis as affected by 1869 onderstepoortensis, Culicoides

of

Onesia (see Melinda)	Ophthalmodex molossi contd.	ornata, Sigara
Oniticellus fulvus	on Molossus molossus, in Suriname 1002	ornatipes, Simulium
in Bulgaria 1385	Ophthalmognathus tenorioae	ornatum, Simulium (Odagmia)
in cattle dung, in Bulgaria 1385	sp. nov., description of 2237	ornatus, Culicoides
Onitis alexis	in Rwanda 2237 in USA (Hawaii) 2237	Ornithocheyletia hallae, on pigeon, interactions between Micromonospora
in Egypt 3374 in cattle dung, effects on Musca	on Nycticorax nycticorax, in Hawaii	chalceae and 922
autumnalis of 2442	2237	Ornithocoris toledoi, rearing of, techniques
Spirocerca lupi in, in Egypt 3374	Ophyra aenescens	for 1747
Onitis assamensis	bacteria in, in Brazil 479	Ornithodoros
sp. nov., description of 2724	in Brazil 479	identifying of 2807
in India 2724	in abattoirs, in Brazil 479	in Italy 3064
in rhinoceros dung, in Assam 2724	sex ratio in 1599 sex-related differences in 1599	relapsing fevers, causal agents in,
Ontario Chironomus plumosus in, natural enemies	opimi, Polyplax	transmission of 3137
of 1902	Opisodasys keeni	Ornithodoros alactagalis
Cimex brevis in, on Myotis 2863	in USA 2319	habitats of 970 hosts of 3408
Coquillettidia perturbans in 2614	Yersinia pestis in, in California 2319	in USSR 969, 970, 3408
Culex pipiens in 2064	Opisodasys pseudarctomys	in Meriones libycus nests, in Azerbaijan
C. restuans in 2064	in USA 1514, 2339	969
Culicidae in 2060 Culicoides stilobezzioides in 2651	in Glaucomys volans nests, in USA 2339 on Glaucomys volans, avoidance of	on Amphibia, in Georgia (USSR) 3408
C. travisi in 2651	competition by 1514	on Reptilia, in Georgia (USSR) 3408
Cuterebra fontinella in, on man 155	seasonal abundance of 2339	population age composition in 969
Damalinia bovis in, on cattle 1742	opisthopus, Culex (see C. taeniopus)	seasonal abundance of 969
Haematobia irritans in, on cattle 1915	opok, Aedes	Ornithodoros amblus
Haematopinus eurysternus in, on cattle	Opoka (see Silica)	biology of 275
1742	Opossum, Virginia (see Didelphis	descriptions of 275
H. suis in, on pig 1743	virginiana) orbicularis, Uropoda	Huacho virus in, in Peru 275 in Peru 275
Linognathus vituli in, on cattle 1742 Musca autumnalis in, on cattle 1915	Orchards, Trombiculidae in, in Kiangsu	on birds, in Peru 275
Onthophagus, in dung, in German Federal	2760	on man, effects of bite by 275
Republic 3055	Orchopeas caedens	predators of, in Peru 275
Onthophagus fissicornis	in USA 3182	Punta Salinas virus in, in Peru 275
in Bulgaria 1385	on Glaucomys volans, in Massachusetts	Ornithodoros canestrinii
in cattle dung, in Bulgaria 1385	3182	in Iran 2750
Onthophagus furcatus	Rickettsia prowazekii in, transmission of 3182	on goat, in Iran 2750 Ornithodoros capensis
in Bulgaria 689, 1385 in cattle dung, in Bulgaria 1385	Orchopeas howardii	Soldado virus in, in West Africa 704
Rodentolepis erinacei in, in Bulgaria 689	in UK 2872	complex of, arboviruses in, transmission of
Onthophagus gagates, in India 1629	in USA 1189, 2339	1947
Onthophagus gazellus	in Glaucomys volans nests, in USA 2339	group of 275
biology of 3376	on dog, in England 2872	Ornithodoros collocaliae
in Niger 3376	on Sciurus carolinensis, in Tennessee	identifying of 2807
in cattle dung effects on ammonia loss of 2425	1189 Rickettsia prowazekii in, not transmitted	in Indonesia 2807 Ornithodoros concanensis
for control of cattle parasites 1932	3066	in Canada 954
for fly control 1932	seasonal abundance of 1189, 2339	on Falco mexicanus, in Alberta 954
Onthophagus granulatus	Orchopeas howardii howardii	Ornithodoros coriaceus
biology of 2728	in USA 1514	Chlamydia spp. in
in Australia 2728	Leptomonas spp. in	in California 267
in cattle dung, in Australia 2728 Onthophagus hingstoni, in India 1629	attachment of 2866 cysts of 2873	transmission of 267 epizootic bovine abortion, virus in,
Onthophagus kingstoni	on Glaucomys volans, avoidance of	transmission of 1471
sp. nov., description of 917	competition by 1514	in USA 266, 267
in Kenya 917	Oregon	insect juvenile hormones in, accentuating
in buffalo dung, in Kenya 917	Aedes sierrensis in 1544	effects of precocenes 1393
Onthophagus lemur	Didelphis virginiana in, ectoparasites of	precocenes in, effects of 1393
Gongylonema pulchrum in, in Bulgaria 689	Geomydoecus spp. in, on Thomomys 31	viruses in, in California 266 Ornithodoros erraticus
in Bulgaria 689	Geomylichus perognathi in, on	in Egypt 1950
Onthophagus obliquus shimba	Perognathus 3096	Qalyub virus in, in Egypt 1950
ssp. nov., description of 917	Ixodes pacificus in 269	sex pheromone of 3074
in Kenya 917	spiroplasmas in 3081	Ornithodoros hermsi
in African elephant dung, in Kenya 917	mites in	in USA 495, 2465
Onthophagus ruficapillus in Bulgaria 1385	on Heteromyidae 2249 on moles 289	on Marmota monax, in Oklahoma 495 on wildlife, in Oklahoma 2465
in cattle dung, in Bulgaria 1385	on Sorex 509	Ornithodoros kelleyi
Onthophagus subansiriensis	Siphonaptera in, on Microtus 2586	in Canada 954
sp. nov., description of 1629	oregonus, Geomydoecus	in bat roosts
in India 1629	oreophilus, Aedes	in Alberta 954
in cattle dung, in Arunachal Pradesh	Oribatei	in Saskatchewan 954
1629	Anoplocephala spp. in 686	Ornithodoros lahorensis
Onthophagus taurus in cattle dung, effects on Musca	in pastures, in Azerbaijan 1051 Oriboca virus, in, Culex quinquefasciatus,	biology of 1941 Congo virus in, in Iran 1637, 2211
autumnalis of 2442	infectivity of 1524	control of
larval behaviour in 2207	Oriental region	acaricides for 3410
Onthophagus vacca, larval behaviour in	Aedes spp. in 575	fumigants for 3410
2207	insect taxonomy in 14	Coxiella burneti in, development of 3070
Ochowistics transacts vesters of 316	orientalis, Blatta	Haller's organ in 707
Oochoristica truncata, vectors of 316 oophagus, Telenomus	orientalis, Ctenophthalmus orientalis, Culex	hosts of 1941 in Iran 1637, 2211
Ophthalmodex artibei	orientalis, Neopsylla pleskei	in USSR 1941
gen. et sp. nov., description of 735	orientalis, Vespa	olfactory sensilla in 3409
in Suriname 735	orientis, Ctenocephalides	on sheep, in Iran 2211
on Artibeus lituratus, in Suriname 735	Orius insidiosus	Rickettsia akari in, development of 3070
Ophthalmodex carolliae	in USA 2025	R. conori in, development of 3070
sp. nov., description of 1002	on Peromyscus leucopus, in Connecticut	R. sibirica in, development of 3070
on Carollia perspicillata, effects of 1002	2025 Orixa japonica, antifeedant activity of	Ornithodoros maritimus Soldado virus in 2213
Ophthalmodex molossi	extracts of 317	virus inhibitor not found in 2213
sp. nov., description of 1002	orizabae, Geomydoecus	Ornithodoros moubata
in Suriname 1002	ornata, Odagmia (see Simulium ornatum)	bactericides in 2745

oudjour mann	
Ornithodoros moubata contd.	Ornithonyssus sylviarum contd.
coxal secretion of, eliciting mating	on poultry, in Israel 290
response from O. erraticus 3074	temperature as affecting 2765
cuticle in, renewal of 270	Oropouche virus
enzymes in 2745	in
Haller's organ in 707	Culicoides paraensis
moulting hormones in 270	in Brazil 3224
moulting in, effects of population density	transmission of 2658
on 255	man, in Brazil 2655, 2656, 2657, 322
olfactory sensilla in 3409	Oropsylla silantiewi
on rabbit, immune response to 2220	in USSR 1688
Ornithodoros moubata porcinus	Yersinia pestis in, in Kirgizia 1688
in Malagasy Republic 3060	Orthellia cornicina, taxonomy of, Orthellia
veterinary importance of 3060	viridis as synonym of 905
Ornithodoros papillipes (see O. tholozani)	Orthellia viridis, taxonomy of, synonym of
Ornithodoros savignyi	O. cornicina 905
control of, acaricides for 2837	Orthene (see Acephate)
Rift Valley fever, virus in, not infective	orthocnemis, Sepsis
2139	Orthogeomys grandis, Pulex sinoculus on
spermine in, in spermatophore 1402	2313
Ornithodoros tartakovskyi	Orthohalarachne diminuata
Dipetalonema viteae in, transmission of	control of, acaricides for 1423
697	descriptions of 1423
in USSR 1688	in Japan 1423
moulting in, effects of population density on 255	on Zalophus californianus, in Japanese zoo 1423
Spirochaetales in, in Kirgizia 1688	Orthopodomyia
Ornithodoros tholozani	in Canada 1533
control of, acaricides for 1087	in Quebec 2881
coxal secretion of, eliciting mating	Orthopodomyia alba
response from O. erraticus 3074	in USA 1821
in USSR 1071, 1688	in tree holes, in West Virginia 1821
moulting in, effects of population density	Orthoptera
on 255	diapause in, review 1191
olfactory sensilla in 3409	helminths in, in Uzbekistan 316
on bat, in Uzbekistan 1071	on man, hypersensitivity to 319
oviposition in, effects of population	Orthopteroida, in Bermuda, book 792
density on 1399	Orthorrhapha, in Nearctic region, book
Spirochaetales in, in Kirgizia 1688	2587
Ornithodoros verrucosus	Oryctolagus cuniculus
biology of 1941	ectoparasites of, seasonal incidence of
hosts of 1941, 3408	2869
in USSR 1941, 3408	Ixodoidea on, in Spain 2869
on Amphibia, in Georgia (USSR) 3408	Siphonaptera on, in France 2335
on Reptilia, in Georgia (USSR) 3408	Spilopsyllus cuniculi on
Ornithogastia	in Portugal 2336
in Papua New Guinea 1968	in Spain 2869
taxonomy of 1968	Xenopsylla cunicularis on, in Portugal
Ornithoica turdi	2336
in USSR 1021	Oryza sativa (see Rice)
on birds, in USSR 1021	Oryzomys bauri, Ixodes galapagoensis on, i
Ornithomya, on Agelaius phoeniceus, in	Galapagos Islands 1949
North America 4	Oryzomys palustris, Hoplopleuridae on, in
Ornithomya avicularia	Mexico 1465
in USSR 1021	Osteitis, in man, caused by Macrothylacia
on birds, in USSR 1021	rubi 690
Ornithomya chloropus	ostsibirica, Peromyscopsylla
in USSR 1021	oswaldoi, Anopheles
on birds, in USSR 1021	Otitis, in cattle, caused by Raillietia auris
Ornithomya fringillina	1128
in Czechoslovakia 190	Otobius megnini
in USSR 1021	control of 2524, 2525
on birds, in USSR 1021	in Malagasy Republic 3060
Ornithonyssus bacoti	in USA 2524, 2525
gnathosoma in, functional morphology of	life-cycle of 2837
929	on cattle, in Wyoming 2525
in Argentina 984	on sheep, in Wyoming 2524
in Burma 1962	veterinary importance of 3060
in dwellings, in Argentina 984	Otodectes
Litomosoides carinii in, pathogenicity of	control of
121	acaricide applicators for 740
on Rattus, in Burma 1962	acaricides for 728
Ornithonyssus bursa	on fur bearers 740
in Argentina 984	Otodectes cynotis
in Nigeria 1493	control of, acaricides for 728
in dwellings, in Argentina 984	feeding in 296
on fowl, in Nigeria 1493	in Italy 12
on guineafowl, in Nigeria 1493	on cat, hypersensitivity to 296
Ornithonyssus sylviarum	on dog, in Italy 12
carbaryl resistance in, in Israel 290	otonhila. Haemanhyselis (see H. narva)
control of, acaricides for 290, 1953, 2764	otophila, Haemaphysalis (see H. parva) otsurui, Tabanus
in Israel 290	Ouabain
in Netherlands 1135	
	in Amblyomma hebraeum, ATPase
in Pakistan 731	inhibition by 2740
in USA 1672, 1953	in Periplaneta americana, effects on
in dwellings, in Netherlands 1135	mechanoreceptors of 1735
malathion resistance in, in Israel 290	in rat, causing release of acetylcholine
microwave irradiation as affecting 2765 on fowl	from brain 1677
	in Simulium ornatipes, effects on water relations of 2393
acquired immunity to 2764	
in California 1953 in Pakistan 731	oudemansi, Notoedres
	oudemansi, Walchiella
on man, dermatitis caused by 1672	ovatus, Aleuroglyphus

```
ovatus, Notoedres
                                     ovazzae, Simulium
                                     ovinus, Melophagus
                                     Oviposition attractants
                                         for Aedes aegypti
                                            aquatic-plant extracts as 2355 peptides as 1759
                                         for Culex molestus, peptides as 1759
                                         for Culiseta longiareolata 2364
                                         for Lucilia cuprina, bacteria as 174
                                     Oviposition deterrents
                                        viposition deterrents
for Aedes aegypti
aquatic-plant extracts as 2355
plant extracts as 2618
for Culicidae 1209
                                         for Lucilia cuprina
                                     Ovis aries (see Sheep)
                                     ovis, Bovicola (see Damalinia ovis)
                                     ovis, Damalinia (Bovicola)
Ovis nivicola, Melophagus kamtshaticus on, in USSR 446
                                     ovis, Oestrus
                                     Ovis orientalis, Ixodidae on, in Iran 2750 ovis, Psoroptes
                                     Owl, short-eared (see Asio flammeus)
                                     owyheensis, Culicoides
                                     6-Oxabicyclo[3.2.1]octan-7-one, 8-(1-
                                          methylethyl)-, against, Musca domestica
                                     1,3,4-Oxadiazol-2(3H)-one, 5-methoxy-3-(2-
                                          methoxyphenyl)-
                                        against
                                        Atta spp. 758
Blattella germanica
in fish, toxicity of 758
                                        in mammals, toxicity of 758 properties of 758
                                     Oxaloacetic acid (see Butanedioic acid, oxo-)
                                     Oxamate (repellent) (see Acetic acid,
                                     (diethylamino)oxo-, C<sub>6</sub>-C<sub>8</sub> alkyl esters) Oxazolidine, 3-acetyl-2-(2,6-dimethyl-5-
                                          heptenyl)-, repellent for, Simuliidae, on cattle 1288
                                     Oxazolone (sensitizing agent) (see 5(4H)-Oxazolone, 4-(ethoxymethylene)-2-
                                     phenyl-)
5(4H)-Oxazolone, 4-(ethoxymethylene)-2-
                                          phenyl-, in mouse, Myocoptes
musculinus reducing sensitivity to 295
galapagoensis on, in
                                        in Calliphoridae, induction of 2712
                                        pyrethroid degradation by
                                                                                1445
                                        mixed function
                                           in Musca domestica
EPN degradation by 206
inhibited by piperonyl butoxide 909
insecticide induction of 909
                                               not involved in insecticide resistance
                                                    1606
                                     Oxidase, cytochrome
                                        in Babesia ovis sporozoites
                                        in Stomoxys calcitrans 3030
                                        in Stomoxys calcitrans larvae, activity
pattern of 2418
in Theileria annulata sporozoites 3077
                                     Oxidase, D-amino acid, in Aldrichina grahami microbodies 3366
                                     Oxidase, phenol (see Oxygenase,
                                          monophenol mono-)
                                    monophenol mono-)
Oxidase, urate, in Aldrichina grahami
microbodies 3366
Oxirane, 2,2-dimethyl-3-[3-methyl-6-(4-
propylphenoxy)-3-hexenyl]-, against,
Anopheles quadrimaculatus 1762
Oxirane, 3-[6-(3-ethylphenoxy)-3-methyl-3-
hexenyll-2-adimethyl-
                                          hexenyl]-2,2-dimethyl-
                                        against
                                           Aedes taeniorhynchus 1762
                                           Anopheles albimanus 176
A. quadrimaculatus 1762
                                    Oxirane, 3-[5-(4-ethylphenoxy)-3-methyl-3-
pentenyl]-2,2-dimethyl-
(E)-
                                    against, Chironomidae 1366, 2412 in ponds, non-target effects of 2412 Oxirane, 2-octyl-3-tridecyl-, cis-, with 4,5-dimethylheptacosane, and 11-
                                          methylnonacosane, attractant for, Musca
                                          domestica 2700
                                     Oxpecker, red-billed (see Buphagus
                                          erythrorhynchus)
                                    oxygaster, Trichopria
```

55, 2656, 2657, 3224

Oxygenase, monophenol mono-	pampanai, Anopheles	Parafilaria multipapillosa, in, Muscidae, in
in Calliphora vicina larval cuticle,	Panagrolaimus migophilus	Dagestan 883
properties of 2189 in Musca domestica	sp. nov., description of 1357 in, Musca domestica, in Karnataka 1357	Paraguay, Triatominae in, flagellates in 3174
inhibition of aldrin epoxidase by 1371	Panallius, on Rodentia, in Argentina 357	parallelus, Tricholipeurus
purification of 2450	Panama	Paralysis (see also Tick paralysis)
subunit structure of 1904	Aedeomyia squamipennis in, viruses in	in Lucilia sericata, caused by Risella 17
in Musca domestica larvae, properties of 891	2629 Coendalges panamensis in, on Coendou	oil 1350 Paramar (see Parathion)
Oxytelus, in dung, in USSR 1057	732	parameces, Laelaps
Oxytetracycline, in Periplaneta americana,	Culex adamesi in 584	paramorsitans, Simulium
reducing susceptibility to carbaryl 2505 Pachycrepoideus vindemiae	C. ocossa in, on man 2923	Paraoxon (diethyl 4-nitrophenyl phosphate) in Triatoma infestans
in USA 1345	C. panocossa in, on man 2923 C. pedroi in 583	esterase inhibition by 1745
parasitising, Musca domestica, in North	C. simulator in 109	metabolism of 3169
Carolina 1345 pacifica, Hoplopleura	Culicidae in 2078	Paraperiglischrus, on bat, in Uzbekistan 1071
pacificus, Ixodes	on man 2283	Paraperiglischrus hipposideros
pacificus, Porribius	Phlebotominae in 2150 on man 2283	descriptions of 505, 3416
Pacui virus, in, Lutzomyia longipalpis, replication of 635	Rhodnius pallescens in, on man 2576	in Japan 505 in Philippines 3416
Paecilomyces varioti	R. prolixus in 2020	on Hipposideros turpis, in Japan 505
in	panamense, Simulium	taxonomy of 505
Culicidae, in Ukraine 1025, 1757 Tabanus autumnalis, in Uzbekistan	panamensis, Coendalges panamensis, Lutzomyia	Paraperiglischrus rhinolophinus in Japan 505
3336	pancensis, Culicoides	in Philippines 3416
Paederus sabaeus	Pandanus, Culicidae in axils of, in tropical	on Rhinolophus cornutus, in Japan 505
control of 3049 in Tanzania 3049	Africa 54 Pandanus rabaiensis, Culicidae in axils of, in	on Rhinolophus ferrumequinum, in Japan 505
on man, dermatitis caused by 3049	Kenya 54	taxonomy of 505
Paguma larvata, Herpetacarus pagumae on,	Pandinus gregoryi, activity in, rhythm of	Paraperiglischrus sternalis
in Fujian 2231 pagumae, Herpetacarus	315 panocossa, Culex	descriptions of 505 in Japan 505
pahangensis, Radfordia	Panstrongylus lignarius	on Rhinolophus ferrumequinum, in Japan
Pain	descriptions of 2577	505
in man	in Venezuela 2577	Parapoynx badiusalis, in USA 2723 parargyreatum, Simulium
caused by Anastrepha 1344 caused by insect stings 1630	Panstrongylus lutzi, in Brazil 811 Panstrongylus megistus	Parasarcophaga (see Sarcophaga)
caused by Latoia vivida 485	activity in, rhythm of 315	Parasarcophaga argyrostoma (see
caused by Oeciacus vicarius 44	control of	Sarcophaga argyrostoma)
pajoti, Lutzomyia yuilli Pakistan	flushing agents for 1507 insecticides for 1507, 2018	Parasarcophaga crassipalpis (see Sarcophaga crassipalpis)
Amphipsylla spp. in, on Rodentia 3186	repellents for 39	Parasarcophaga hirtipes (see Sarcophaga
Anopheles spp. in 1775	domiciliarity in 1744	hirtipes)
A. culicifacies in 81, 617, 2938 A. stephensi in 617, 2915	heart in 2297 in Brazil 42, 811, 812, 1744, 3167	Parasarcophaga ruficornis (see Sarcophaga ruficornis)
Argas persicus in, bacteria in 247	in dwellings, in Brazil 812	Parasarcophaga similis (see Sarcophaga
Crimean hemorrhagic fever in 1945	Malpighian tubules in 2022	similis)
fur mites in 2772 malaria in 617	nuclear fusion in 1503 precocenes in, effects of 350	Parasite-host interactions development of resistance 2410
Neohaematopinus qadrii in, on	preyed on by, Araneae, in Brazil 42	effects on hosts of substances injected by
Funambulus 3165	Trypanosoma cruzi in, infectivity of 806	ovipositing parasites 1724
Ornithonyssus sylviarum in, on fowl 731 pakistanicus, Listrophoroides	virus-like particles in, pathogenicity of 808	factors affecting relations between mammals and arthropod parasites
Palaearctic region, Tabaninae in 3340	paoshanensis, Macrostylophora	327
Palaeopsylla minor minor	papatasi, Phlebotomus	functional responses of parasitoids that
Leptomonas spp. in attachment of 2866	Paper wasp (see Polistes) papillipes, Ornithodoros (see O. tholozani)	imperfectly avoid superparasitism 2201
cysts of 2873	Papio anubis, chikungunya virus in, in	Parasites
Palaeopsylla soricis	Central African Republic 2066	evolutionary biology of, book 536
in Hungary 2334 in USSR 1046	Papua New Guinea Anopheles spp. in, on man 1771	population dynamics of 1339 Parasitinae
Palaeopsylla soricis starki	Culicidae in 833	in British Isles 1960
in Hungary 2027	Guntheria spp. in 1968	taxonomy of 1960
on Apodemus flavicollis, in Hungary 2027	G. serrata in, on Rattus 1005 Laelaps spp. in, on Pogonomys 1416	parasitivorax, Cheyletiella Parasitus
on Sorex araneus, in Hungary 2027	Ornithogastia spp. in 1968	gnathosoma in, functional morphology of
Palamnaeus (see Heterometrus)	Trombiculidae in, on small mammals	929
Palamnaeus bengalensis (see Heterometrus bengalensis)	3426 Whartonia kulumadouensis in, on	in rodent nests, in Transbaikalia 1032 Parasitus coleoptratorum
pallens, Culex pipiens	Dobsonia 2235	diapause in 926
pallens, Haematopota	Paraboopia, on Marsupialia, in Western	intraspecific competition in 930
pallescens, Rhodnius pallicera, Glossina	Australia 2565 Parabuthus, in Zimbabwe 1428	preying on, Macrocheles glaber 930 Paratanytarsus
pallida, Crataerina	Parabuthus mosambicensis	control of, insecticides for 2713
pallidipennis, Triatoma pallidipes, Glossina	in Zimbabwe 1428	in water supply, in England 2713
pallidum, Leptotrombidium	on man, stings by 1428 Parabuthus transvaalicus	Parathelohania, in, Anopheles earlei, in Quebec 1197
pallidus, Latrodectus	in Zimbabwe 1428	Parathelohania legeri, in, Anopheles spp., in
pallidus, Tabanus golovi	on man, stings by 1428	Ukraine 1025
pallipes, Hippelates (see Liohippelates pallipes)	Parabuthus truculentus in Zimbabwe 1428	Parathelohania obesa, in, Aedes spp., in Ukraine 1025
pallipes, Liohippelates (Hippelates)	on man, stings by 1428	Parathion (O,O-diethyl O-(4-nitrophenyl)
Palm, corozo (see Schoelea zonensis)	Parabyssodon transiens (see Simulium	phosphorothioate)
Palm trees Chagas' disease and 2020	transiens) Paraceroglyphus, on Xenopsylla difficilis, in	against, Boophilus microplus, on cattle 2746
Rhodnius pallescens in, in Panama 2576	Kenya 1513	formulations of, microencapsulated 1733
R. prolixus in in Panama 2020	paradoxa, Polyplax	in Triatoma infestans
in Venezuela 37	paraensis, Culicoides paraensis, Lutzomyia (Psychodopygus)	esterase inhibition by 1745 metabolism of 3169
palmatus, Scorpio maurus	paraensis, Psychodopygus (see Lutzomyia	resistance to, in
palmerae, Culicoides palpalis, Glossina	paraensis) paraensis, Rhodnius	Culex pipiens 2604 C. quinquefasciatus 1221
F	P	o. quinquoiasoiailis 1221

of

Parathion contd.	Pastures contd.	Pelargonium radula, insecticidal activity o
resistance to, in contd.	Onthophagus granulatus in, in Australia	oil from 2879
Culicidae, in Utah 3212	2728	Pelargonium roseum (see P. radula)
Musca domestica, genetics of 1365	Oribatei in, in Azerbaijan 1051	penetrans, Tunga
Parathion-methyl (O,O-dimethyl O-(4-	pest management in, book 2833	Penfluron (see Benzamide, 2,6-difluoro-N
nitrophenyl) phosphorothioate)	Scathophaga stercoraria in, in Michigan	[[[4-(trifluoromethyl)phenyl]amino]carl
formulations of, microencapsulated 1733 in Periplaneta americana	2454, 2709 Pastures, irrigated	onyl]-) penghuensis, Aedes
effects of carbon dioxide on	Aedes spp. in, in California 2088	penicilliger, Amalaraeus (Ceratophyllus;
susceptibility to 2848	Culex tarsalis in, in California 2088	Malaraeus)
effects of crowding on susceptibility to	mosquito control in, Bacillus thuringiensis	penicilliger, Ceratophyllus (see Amalaraeu
2848	for 2084, 2088	penicilliger)
resistance to, in	Pathogen-host interactions, population	penicilliger, Macrocheles penicilliger, Malaraeus (see Amalaraeus
Culex pipiens 2604 C. quinquefasciatus 1221	dynamics of invertebrates and their pathogens 2839	penicilliger)
with trichlorphon, against, Culex pipiens	pathrushevae, Cnetha (see Simulium	Penicillium
2604	pathrushevae)	in Chilidae
Paravespula vulgaris (see Vespula vulgaris)	pathrushevae, Simulium (Cnetha)	Culicidae in Ukraine 1025, 1757
Parcoblatta, in dwellings, in Netherlands	pavlovskii, Androlaelaps	in USSR 1019
1135	pavlovskii, Latrodectus pallidus	Penicillium cyclopium, antigens of 1669
Paregle, parasitised by, Trichopria major, in Romania 453	pavlovskyi, Laelaps Peanut (see Groundnut)	peniculatus, Macrocheles
parensis, Anopheles	Peaton virus	Penncap E (see Parathion) Penncap M (see Parathion-methyl)
pari, Ixodes	characterisation of 1253	Pennsylvania
Parietaria officinalis, human hypersensitivity	in	Chironomidae in, on Rhododendron
to 989	cattle, in New South Wales 862, 1253	3359
Paris men assist Aparheles and 3104	Culicoides brevitarsis	Pthirus pubis in, on man 348, 1176
Paris green, against, Anopheles spp. 3194 particeps, Apallates (Hippelates)	in New South Wales 862 in Queensland 1253	Trixacarus caviae in, on guinea-pig 19 penobscotensis, Simulium
particeps, Apanates (Hippenates)	pecorum, Gasterophilus	9-Pentacosene, (Z)-, Haematobia irritans
particeps, Hippelates (see Apallates	Pectinase (see Polygalacturonase)	sex-pheromone component 1898
particeps)	pectinata, Guntheria	Pentanedial, Centruroides noxius venom
Particleboard, insecticides in, persistence of 2039	pectinata, Pollenia	detoxified by 2781 1,4-Pentanediamine, N ⁴ -(6-chloro-2-methon
Partridge (see also named species)	Pectinophora gossypiella, on man, hypersensitivity to 319	9-acridinyl)- N^1 , N^2 -diethyl- (see
Haemaphysalis punctata on, in Italy	peculiaris, Hybomitra	Mepacrine)
3064	pedalis, Linognathus	Pentanedioic acid, 2-oxo-, in Cochliomyia
Partridge, red (see Alectoris rufa)	Pediculus capitis	macellaria, unchanged during anaerobi
parumapertus, Dermacentor parva, Haemaphysalis	biology of 1174 control of 1142, 1147, 1174	metabolism 1359 Pentanoic acid, Cochliomyia hominivorax
Parvoviridae	insecticides for 345, 347, 559, 1178,	responses to 1896
in	1498	Penthetor lucasi, Whartonia penthetor on
Aedes aegypti	epidemiology of 1174, 2014, 2570	2235
effects of 105 storage of 3192	in Italy 768, 2014, 2570 in Netherlands 1178	Pentie plan in nig covered by Verryle 0
Periplaneta spp., infectivity of 22	in New Zealand 559	Peptic ulcer, in pig, caused by Vespula 9 Peptides
P. fuliginosa, characterisation of 22,	in Switzerland 1174	as oviposition attractants for mosquitoes
547	in UK 347, 1142, 1147	1759
parvula, Monelata (Trichopria)	in USA 1498	in Aedes aegypti, incorporation of dietar
parvula, Trichopria (see Monelata parvula) Passer domesticus	insecticides in, determining of susceptibility to 3166	amino acids into 2047 in Calliphora vicina brain 887, 2711
Boydaia nigra on, in Hawaii 2237	lindane resistance in, in Netherlands	in Pogonomyrmex barbatus venom,
Ceratophyllus gallinae on, in Scotland	1178	hemolytic activity of 231
2341	on man	perakensis, Radfordia
Fort Morgan virus in, in Colorado 2219 Lyctocoris campestris in nests of, in	in California 1498 in England 1147	peregrina, Boettcherisca (Sarcophaga) peregrina, Sarcophaga (see Boettcherisca
Switzerland 564	in Italy 768, 2014, 2570	peregrina)
Oeciacus vicarius on, in USA 44	in New Zealand 559	peregrini, Geomydoecus
Saint Louis encephalitis, virus in, in	in Switzerland 1174	perfiliewi, Phlebotomus
Indiana 1791	in UK 1142	perglaber, Macrocheles
Tonate virus in, antibodies to 1749 Passeriformes, arthropod parasites of, in	outbreaks of 559 taxonomy of, characters distinguishing	Periplaneta, control of, biological 1737 Periplaneta americana
New Zealand 801	Pthirus pubis and 34	accessory reproductive glands in, effects
Pasteurella tularensis (see also Tularemia)	Pediculus humanus	alkaloids on 339
foci of 496	antennae in, sensilla on 1180	4-aminobenzoic acid in, fate of 546
in Amalaraeus penicilliger, in Alaska	biology of 1174 control of 1142, 1147, 1174	antennae in proteins in 3153
2322	insecticides for 2292	role in flight of 21
Culicidae, transmission of 3215	epidemiology of 1174	sensilla on 548, 1167, 1486, 2843
Dermacentor spp., transmission of 496	in Egypt 2292	antibiotics in, effects on carbaryl toxicity
D. reticulatus, in Yugoslavia 237 Euhoplopsyllus glacialis, in Alaska	in Switzerland 1174 in UK 1142, 1147	of 2505 attractants for 1983, 3161
2322	insecticides in, determining of	bacteria in, in Philippines 1727
man, in USSR 1380	susceptibility to 3166	biology of 788
Megabothris calcarifer, in Alaska 2322	olfactory system in, evolution of 3132	composition of, effects of thermal
M. quirini, in Alaska 2322 Microtus arvalis, in USSR 496	on man dermatitis caused by 769	acclimation on 1490 control of 335
Peromyscopsylla ostsibirica, in Alaska	in Egypt 2292	antifeedants for 317, 2796
2322	in England 1147	inert dusts for 3126
Tabanus spp., transmission of 1380	in Switzerland 1174	insecticides for 23, 759, 788, 1681,
Xenopsylla cheopis, parenteral infection	in UK 1142	2504, 2505, 2516, 2848 corpus allatum in
Pasture management, role in tick control of	precocenes in, effects of 342 Rickettsia prowazekii in, replication of	neural inhibition of 550
260	3066	ovarian regulation of activity of 284
Pastures	taxonomy of, characters distinguishing	DDT analogues in, structure-activity
Aedes spp. in, effects of burning on 79	Pediaulus humanus canitis (see P. canitis)	relationships in 3123
Dermacentor reticulatus in, in Yugoslavia 237	Pediculus humanus capitis (see P. capitis) Pediculus humanus corporis (see P.	DDT in effects of 552
diflubenzuron in, residues of 2109	humanus)	effects on ATPase of 1160
fenthion in, non-target effects of 3210	pedifer, Phlebotomus	descriptions of 554
malathion in, residues of 2952	peditaeniatus, Anopheles	development in, effects of salivarectomy on 1484
mosquito control in 3210	pedroi, Culex	OII 1707

Periplaneta americana contd.
digestive enzymes in 1161, 2551, 2840 enzymes in 336, 552, 748, 786, 794, 799, 1160, 1169, 1734, 2784, 3153
1160, 1169, 1734, 2784, 3153
escape system in 3162
eyes in 3155
flight activity in, initiation of 1166 flight in, factors affecting duration of
1163
food utilisation in 28
glycogen in, regulation of 336
gut in absorption of amino acids in 553
bacteria in 29
hemocytes in, anaerobic metabolism in
1731
Heterometrus fulvipes venom in, effects on succinate dehydrogenase of 2784
hygroreception in 2843
in German Democratic Republic 335
in India 793
in Netherlands 1740 in Philippines 1727
in Taiwan 3161
in Turkey 788
in UK 1141
in dwellings, in Philippines 1727 in hospitals, in Philippines 1727
in markets, in Philippines 1/2/
in restaurants, in Philippines 1727
in rice stores, in Taiwan 3161 insect growth regulators in, effects of
1466
insecticide susceptibility in
effects of carbon dioxide on 2848 effects of crowding on 2848
insecticides in, acetylcholinesterase
inhibition by 748
intermale agonistic interactions in 1741 juvenile hormones in, effects of food
availability on synthesis of 2009
learning in 797
Malpighian tubules in, development of 2552
mechanoreceptors in 1491, 1735
moulting hormones in 787
nervous system in 338, 550, 799, 1164, 1166, 1485, 2559, 2842, 2845, 2847,
3154
N-acetyldopamine in 2548
effects of X-irradiation on 1169 glycogen in 2008
neuromuscular system in 791
neurosecretory system in 2289
effects of dietary glycine on 798 nymphs of 554
olfactory responses in 797
ovaries in, effects of chemosterilants on
1165 parasitised by
Evania appendigaster 788
Tetrastichus hagenowii 334, 1739,
2550 Parvoviridae in, infectivity of 22
preyed on by
Formica exsecta 2846
Myrmarachne platypalpus, in Punjab 793
proctolin in, activity of analogues of
1487
prothoracic gland in 2847 pyrethroids in
neurotoxicity of 3435
symptoms caused by 3435
reproduction in effects of food availability on 2009
not affected by salivarectomy 1484
salivary glands in 786, 2477
serum in, hemagglutinins in 2561 sex pheromone of
absolute configuration of 2554
identity of 2553
laboratory synthesis of 2553 mimics of 3152
orientation to 789
responses to mimics of 2540
stepping patterns in 2287 sternal gland in 337
functions of 3163
tergal glands in 337
tibia in, sensilla on 2547 tracheal system in, air transport in 2288

```
Periplaneta americana contd.
    trehalose in, regulation of utilisation of
    walking in, nervous control of 1485
Periplaneta australasiae
    descriptions of 554
    in Netherlands 1740
    in UK 1141
    nymphs of 554
Parvoviridae in, infectivity of 22
Periplaneta brunnea
    antennae in, sensilla on 1167
    descriptions of 554
nymphs of 554
Parvoviridae in, infectivity of 22
Periplaneta fuliginosa
    densonucleosis virus in, characterisation of
        547
    descriptions of 554
nymphs of 554
Parvoviridae in, characterisation of 22
    predators of, defence mechanisms against
        2846
Periplaneta japonica
   descriptions of 554
nymphs of 554
Parvoviridae in, infectivity of 22
    predators of, defence mechanisms against
        2846
Periplanone B (see Spiro[11-oxabicyclo[8.1.0]undec-6-ene-2,2'-oxiran]-3-one, 8-methylene-5-(1-methylethyl)-, [1R-(1R*,2R*,5S*,6E,10R*)]-)
Perisoreus canadensis, Tarsopsylla octodecimdentata on, in Alaska 1187
Perlan Alb (see 1-Dodecanesulfonic acid,
     sodium salt)
Permanent (see Permethrin, with pyrethrins)
Permethrin ((3-phenoxyphenyl)methyl 3-
     (2,2-dichloroethenyl)-2,2-
     dimethylcyclopropanecarboxylate)
    against
       Acdes aegypti 1763, 1810, 2886
A. cantans 387, 828
A. caspius 2886
       A. vexans 387
       Amblyomma americanum 3059
          on man 1937
       Anopheles quadrimaculatus 1193, 1763
       Blattella germanica 657, 1143, 1144
Culex molestus 401, 828
C. pipiens 2604, 2886
Culicidae 78, 2111
       Damalinia bovis, on cattle 1742
Diptera, on cattle 223
       Euproctis chrysorrhoea
       Glossina morsitans 1330
       G. palpalis 1326, 2157
G. tachinoides 2157
       Haematobia irritans, on cattle 2430 insects in aircraft 2516 Ixodes ricinus 1639
       Musca autumnalis, on cattle 2430
M. domestica 657, 1143, 1144, 1439,
2502, 3371
       in animal housing 455
in fowl dung 2703
Ornithonyssus sylviarum, on fowl
            1953
       Panstrongylus megistus 1507
       Paratanytarsus, in water supply 2713
Pediculus capitis 345
P. humanus, on man 2292
       Psorophora columbiae
Triatoma infestans 560
                                         1193
    biodegradability of 1144
   cost of 1144
   in Asellus aquaticus, toxicity of 2713
   in carpets, persistence of
                                        2516
   in cattle ear tags 2430 in clothing 1763, 1937 in fish, toxicity of 2713
                               2713
   in fowl feed 2703
   in glassfibre strips 455
in man, residues of 2292
in polluted water, reduced activity of
   in Rhodnius prolixus, effects on
        neurosecretory system of 1182
   in savanna, non-target effects of 2157
   in textiles, persistence of 2516 non-target effects of 876
```

```
Permethrin contd.
   on walls, persistence of 401
   persistence of 1326, 1330
   repellent for, Simuliidae, on cattle 1288
   resistance to, in
      Culex quinquefasciatus
         development and loss of 2110
         genetics of 3281
         penetration rate not involved in 392
      Musca domestica
         development of
                              1356
         in German Federal Republic 1356
   synergists for, piperonyl butoxide as
   with pyrethrins, against, Alphitobius diaperinus, in fowl housing 687
   (1R-cis)-
      against
         Anopheles quadrimaculatus 1193
         Psorophora columbiae 1193
      in Periplaneta americana, neurotoxicity
          of 3435
      resistance to, in

Anopheles stephensi 3238
         Culex quinquefasciatus, and cross-
resistance 2353
      synergists for, piperonyl butoxide as 1193
   (1RS-cis)-
      against
         Anopheles quadrimaculatus 1193
         Chironomidae 3346
      Culicidae 78

Psorophora columbiae 11
metabolism of, review 1445
      synergists for, piperonyl butoxide as
(1RS-trans)- (see Transpermethrin)
(1R-trans)- (see Biopermethrin)
perniciosus, Phlebotomus
perognathi, Geomylichus
Perognathus fasciatus, Geomylichus
perognathius persus
Perognathus parvus
Geomylichus perognathi on, in Oregon
       3096
   mites on, in Oregon 2249
Peromyscopsylla bidentata
in Hungary 2027
in USSR 1046, 3184
   on Crocidura leucodon, in Hungary
       2027
   on small mammals, in Siberia 3184
Peromyscopsylla ostsibirica
   in USA (Alaska) 2322
on Microtus oeconomus, in Alaska 2322
   Pasteurella tularensis in, in Alaska
Peromyscopsylla ostsibirica longiloba (see
     P. ostsibirica)
Peromyscopsylla silvatica
in USSR 1052
   on small mammals, in Siberia 1052
Peromyscus
Hoplopleuridae on, in Mexico 1465
preying on, Latrodectus hesperus 2493
Peromyscus leucopus
   Babesia microti in, in North America
       3397
   Dermacentor variabilis on, in Connecticut
       248
   Ixodes dammini on
      in Connecticut 248
      in Massachusetts 1651
   Orius insidiosus on, in Connecticut 2025
Peromyscus maniculatus
   arthropod parasites of, reinfestation by
       2002
   Colorado tick fever, virus in, in Colorado
   Dermacentor andersoni on, in Colorado
       1403
   Myobia musculi on, in South Dakota
       511
   Myocoptes musculinus on, in South
Dakota 511
Yersinia pestis in, in California 2319
Peropteryx macrotis, Psorergatoides
peropteryx on, in French Guiana 736
peropteryx, Psorergatoides
persicae, Myzus
persicus, Argas
personatus, Reduvius
persulcatus, Ixodes
```

perturbans, Coquillettidia (Mansonia)	Pheasant contd.	DL-Phenylalanine, 3-hydroxy-α-methyl-,
perturbans, Mansonia (see Coquillettidia	Mallophaga on, in Spain 340	against, Lucilia cuprina 1382
perturbans)	Wohlfahrtia spp. on, in Washington State	Phenylbutazone (4-butyl-1,2-diphenyl-3,5-
Peru	2186	pyrazolidinedione)
Culicidae in, viruses in 1828	Pheasant carcasses, Dryomyza anilis in, in	against, Sarcoptes scabiei, on man 291
Lutzomyia amazonensis in 1256	UK 2183	Phenylmercuric acetate (see Mercury,
L. Ilanosmartinsi in 1257	Phenanthro[3,4-d]-1,3-dioxole-5-carboxylic	(acetato-O)phenyl-)
mites in, in house dust 921	acid, 8-methoxy-6-nitro-	Pherbellia obscura
Ornithodoros amblus in	sterilant for	taxonomy of
on man 275	Aedes aegypti 1755	characters distinguishing P. subtilis an
viruses in 275	Dysdercus koenigii 1755	677
Phlebotominae in 1259	Tribolium castaneum 1755	Pherbellia subtilis misidentified as 67
Pest control	Phenobarbital (5-ethyl-5-phenyl-	Pherbellia punctata
book 322 economics of research leading to 1924	2,4,6(1H,3H,5H)-pyrimidinetrione)	parasitising, Succinea putris 2198
future of 1715	in Calliphoridae, induction of microsomal	population dynamics of 2198 Pherbellia subtilis
Pest management	oxidase by 2712	sp. nov., description of 677
book 2833	in Musca domestica, induction of	biology of 677
microbial agents in 3118	glutathione S-transferase by 3343	hosts of 677
Pesticides	in rat, effects on malathion toxicity of	in Canada 677
analysis of, in the field 235	750	in USA 677
application equipment and techniques,	Phenobarbitone (see Phenobarbital)	Pherbellia ventralis
review 2271	Phenol, 4-(2-aminoethyl)-, in rat,	taxonomy of
behaviour of, physical principles of, book	levarterenol release caused by 3115	characters distinguishing P. subtilis an
2503	Phenol, 3,5-bis(1,1-dimethylethyl)-,	677
book 1432, 2787	methylcarbamate (see Butacarb)	Pherbellia subtilis misidentified as 67
determination of, conference 2260 formulations of, effects on safe use of	Phenol, 2,6-dichloro-	Pheromermis tabani
527	Amblyomma maculatum responses to 926	sp. nov., description of 2695 in, <i>Tabanus autumnalis</i> , in Crimea 269:
hazard classification of 2791	in Amblyomma tholloni 1405	Pheromermis vernalis
in foodstuffs, residues of 529, 3128	in Dermacentor andersoni, storage in	sp. nov., description of 2695
in insects, effects on nervous system of	lipids of 3404	in, Tabanus autumnalis, in Crimea 269:
329	in Dermacentor variabilis, storage in lipids	Pheromones
metabolism of, book 2790	of 3404	formulations of, controlled release 2829
microbial, registration of 1540	Rhipicephalus sanguineus responses to	in insects, review 1716
non-target effects of 313	926	philipi, Schoengastia
review 1987	Phenol, 3,5-diethyl-, methylcarbamate (see	philippinense, Leptotrombidium imphalum
occupational exposure to 1684 registration of, environmental criteria for	Fenethacarb) Phenol, 2-(1,3-dioxolan-2-yl)-,	philippinensis, Anopheles Philippines
2786	methylcarbamate (see Dioxacarb)	Anopheles aconitus in 2127
residues of 313	Phenol, 4-methyl-, Cochliomyia hominivorax	A. annularis in, viruses in 3221
use of	responses to 1896	A. sundaicus in 2127
in South Africa 1984	Phenol, 2-methyl-4,6-dinitro- (see DNOC)	Culex bitaeniorhynchus in, viruses in
indirect costs resulting from 751	Phenol, 2-(1-methylethoxy)-,	3221
prodigal or precise, review 760	methylcarbamate (see Propoxur)	C. tritaeniorhynchus in, viruses in 83,
Pet animals	Phenol, 3-methyl-5-(1-methylethyl)-,	3221
mites on, transfer to man of 288 tick control on 711	methylcarbamate (see Promecarb)	C. vishnui in, viruses in 83
Petauridae, Haemolaelaps spp. on, in	Phenol, 2-(1-methylpropyl)-4,6-dinitro- (see Dinoseb)	Culicidae in 856 ectoparasites in 2804, 2818
Australia 3103	Phenol, 4-nitro-, in Musca domestica, EPN	on domestic animals 2813
Petaurista petaurista, Atopophthirus setosus	metabolite 206	Leptotrombidium spp. in 2490
on, in China 558	Phenol oxidase (see Oxygenase, monophenol	malaria in 2127
Petaurista yunnanensis, Ascoschoengastia	mono-)	Periplaneta americana in, bacteria in
spp. on, in Yunnan 293	10H-Phenothiazine, in vertebrates, toxicity	1727
Petrochelidon pyrrhonota	of 1012	Promuricheyla lukoschusi in, on
Fort Morgan virus in, in Colorado 2219	Phenothrin ((3-phenoxyphenyl)methyl 2,2-	Nannosciurus 2480
Oeciacus vicarius on in Colorado 1749	dimethyl-3-(2-methyl-1- propenyl)cyclopropanecarboxylate)	Protaetia fusca in 3382 Spinturnicidae in 3416
in South Dakota 1749	against	Trombiculidae in 3428
in USA 44	Blattella germanica 1144	Philonthus
peus, Culex	Musca domestica 1144	in cattle dung, successions of 490
ofitzeri, Nearctopsylla	Panstrongylus megistus 1507	in dung, in USSR 1057
pH .	(1R-cis)-, in Periplaneta americana,	Philonthus longicornis
in Aedes atropalpus mid-gut 63	neurotoxicity of 3435	biology of 3345
in Aedes epactius mid-gut 63	(1R-cis,trans)-	descriptions of 3345
in Aedes scutellaris mid-gut 63	against	preying on, Musca domestica 3345
in mosquito cell lines, variation in 1566 in Nauphoeta cinerea hemolymph, effects	Anopheles quadrimaculatus 1193 Culicidae 78, 2111	Philopteridae, adaptive radiation in 2308 Philopterus, on Passeriformes, in New
on ventilation of 1488	Psorophora columbiae 1193	Zealand 801
in Simulium breeding water 2666	synergists for, piperonyl butoxide as	Phlebotominae
Phaenicia cuprina (see Lucilia cuprina)	1193	arboviruses in, in Brazil 2897
Phaenicia eximia (see Lucilia eximia)	(1R-trans)-, in Periplaneta americana,	bibliography 1254, 1255
Phaenicia sericata (see Lucilia sericata)	neurotoxicity of 3435	control of 1844
Phaeotabanus, genitalia in 463	Phenoxybenzamine (N-(2-chloroethyl)-N-(1-	insecticides for 1261, 1265, 2536
Phaeotabanus limpidapex	methyl-2-phenoxyethyl)benzenemethana-	feeding behaviour in, effects of
descriptions of 463	mine)	temperature on 2283
in Argentina 463 Phagostimulants, for arthropods 1471	in Amblyomma hebraeum, not inhibiting ATPase 2740	in Colombia 2661 in Nearctic region, book 2587
phalaenoides, Psychoda	in rat, increasing levarterenol release by	in Panama 2150
Phalangeridae, Haemolaelaps spp. on, in	Latrodectus antheratus venom 3115	in Peru 1259
Australia 3103	Phenthoate (ethyl α-[(dimethoxyphosphinot-	in South Africa 2139
pharaonis, Monomorium	hioyl)thio]benzeneacetate)	in Venezuela 419
Pharyngomyia, in Tadzhikistan 154	against, Musca domestica 1893	Leishmania spp. in
Pharyngomyia picta	resistance to, in, Culex pipiens 2604	development of 1084
in Spain 1117	with trichlorphon, against, Culex pipiens	transmission of 326
on Cervus elaphus, in Spain 1117 Pheasant (see also named species)	2604 L-Phenylalanine	nocturnal activity in 137 on man
Calliphora spp. on, in Washington State	in Aedes togoi, utilisation by Brugia patei	in French Guiana 422
2186	of 68	in Panama 2283
Clostridium botulinum in, in Washington	in Anopheles atroparvus, utilisation by	physiological age of, determining of 287
State 2186	Brugia patei of 68	traps for 97, 2971
lindane in, effects on blood of 2793	in Anopheles stephensi, effects of	Phlebotomus
malathion in, effects on blood of 2793	Plasmodium berghei on 1199	Coelomomyces ciferrii in 2660

control of 3308	in China 421	methoprene in, development inhibition by
in Bihar 1262	Phlebotomus martini	464
in Malagasy Republic 2389	feeding behaviour in 1086	olfactory responses in, to novel odours
in Saudi Arabia 2530	in Kenya 1086, 2972	3047
in Spain 3308	Leishmania spp. in, in Kenya 2972	on sheep, in Wyoming 2524 ovaries in, factors affecting number of
insecticides in, determining of susceptibility to 3190	on lizard, in Kenya 2972 Phlebotomus mascittii	ovarioles in 3361
taxonomy of, enzymes as characters for	autogeny in 2149	tarsi in, chemosensilla on 1614
2967	gonotrophic cycle in 2149	ziziphin in, effects on chemoreceptors of
Phlebotomus affinis (see Sergentomyia	in France 636, 1843, 2149	1613
affinis)	in Italy 764	Phormia terraenovae
Phlebotomus africanus (see Sergentomyia africana)	in animal housing, in Italy 764 taxonomy of 869	as component of poultry feed 1623 control of 2524
Phlebotomus alexandri	Phlebotomus papatasi	growth regulators for 464
in Saudi Arabia 2530	appendages in, abnormalities in 1267	flight ability in, programmed loss of
in Spain 1843	Aspergillus terreus in, pathogenicity of	3026
in USSR 1688	2968 control of	in USA 2524 methoprene in, development inhibition by
Leishmania spp. in, in Kirgizia 1688 Phlebotomus amazonensis (see Lutzomyia	insecticides for 1263, 1576, 2536	464
amazonensis)	repellents for 1576	on sheep, in Wyoming 2524
Phlebotomus antennatus (see Sergentomyia	DDT resistance in, in Bihar 1263	parasitised by, Nasonia vitripennis 1895
antennata)	flight height in 2145	proboscis extension response in 678 sex ratio in 1599
Phlebotomus argentipes appendages in, abnormalities in 1267	in Greece 1576 in India 1261, 1263, 1266, 1267, 2662	sex-related differences in 1599
Aspergillus terreus in, pathogenicity of	in Portugal 1843	water receptors in, sugar reception by
2968	in Saudi Arabia 2530, 2535, 2536	910
control of, insecticides for 1263	in Sudan 634	Phosalone (S-[(6-chloro-2-oxo-3(2H)-
in India 1260, 1261, 1262, 1263, 1265,	in USSR 2145, 3307	benzoxazolyl)methyl] O,O-diethyl
1266, 1267, 1845, 2662 in cattle housing	in cattle housing, in Gujarat 2662 in cotton fields, in Turkmenia 2145	phosphorodithioate) against
in Bihar 1260	in dwellings, in Gujarat 2662	Cimex lectularius, in animal housing
in Gujarat 2662	Isfahan virus in, in Turkmenia 3307	2562
in dwellings, in Bihar 1260	Leishmania spp. in 867	Menacanthus stramineus, on fowl
on man, in West Bengal 1845	L. major in, infectivity of, effects of host	2562 Menopon gallinae, on fowl 2562
population dynamics of 1265 rearing of, techniques for 2968	on 2146 rearing of, techniques for 2968	Musca domestica 1893
Rhizopus stolonifer in, pathogenicity of	Rhizopus stolonifer in, pathogenicity of	Phosmet (S-[(1,3-dihydro-1,3-dioxo-2H-
2968	2968	isoindol-2-yl)methyl] O,O-dimethyl
seasonal abundance of 1261	seasonal abundance of 1261, 1576, 2535	phosphorodithioate)
Phlebotomus ariasi diapause in 633	Phlebotomus pedifer feeding behaviour in 1086	against Musca domestica 1893
dispersal of 134	in Kenya 1086	Simuliidae, on cattle 1289
enzymes in 2967	Phlebotomus perfiliewi	Stomoxys nigra, on cattle 203
gonotrophic cycle in 2149	enzymes in 2967	Phosphamidon (2-chloro-3-(diethylamino)-1
habitats of 636	in Italy 2967	methyl-3-oxo-1-propenyl dimethyl
in France 132, 134, 633, 636, 2149, 2967 in Portugal 1843	taxonomy of, enzymes as characters for 2967	phosphate) against, Boophilus microplus, on cattle
Leishmania spp. in, transmission of 2148	Phlebotomus perniciosus	2746
L. donovani in, transmission of 132, 133,	diapause in 633	resistance to, in, Culex pipiens 2604
134	enzymes in 2967	with trichlorphon, against, Culex pipiens
rearing of, techniques for 633 seasonal abundance of 636	in France 633, 636, 2967 in Italy 764, 2967	Phosphatase, in Musca domestica, not
taxonomy of, enzymes as characters for	in Portugal 1843	involved in insecticide resistance 1606
2967	in Tunisia 2967	Phosphatase, acid
Phlebotomus bedfordi (see Sergentomyia	in animal housing, in Italy 764	in Babesia bigemina 264
bedfordi) Phlebotomus bergeroti, in Saudi Arabia	rearing of, techniques for 633	in Babesia ovis 264 in Culex tritaeniorhynchus, genetics of
2530	taxonomy of, enzymes as characters for 2967	2377
Phlebotomus caucasicus	Phlebotomus rodhaini	in Periplaneta americana salivary glands
in Romania 1788	in Kenya 2972	786
in USSR 1688	Leishmania spp. in, in Kenya 2972	in Stomoxys calcitrans 3030
Leishmania spp. in 867 in Kirgizia 1688	on lizard, in Kenya 2972 Phlebotomus schwetzi (see Sergentomyia	in Stomoxys calcitrans larvae, activity pattern of 2418
Phlebotomus chabaudi, in Spain 1843	schwetzi)	isoenzymes
Phlebotomus chinensis	Phlebotomus sergenti	in Čulex ocossa 2923
biology of 868	control of	in Culex panocossa 2923
control of, insecticides for 868 in China 868	insecticides for 1576 repellents for 1576	Phosphatase, adenosine tri- in Musca domestica, role in insecticide
in animal housing, in China 868	Entomophthorales in, in Algeria 2660	resistance of 879
in caves, in China 868	in Algeria 2660	in Periplaneta americana coxal muscles,
on cattle, in China 868	in Greece 1576	heterogeneity of 794
on donkey, in China 868	in Portugal 1843	in Periplaneta americana suboesophageal
taxonomy of 869 Phlebotomus colabaensis, in India 1262	in Saudi Arabia 2530 in USSR 1688	ganglia, effects of DDT on 1160 calcium-activated, in <i>Blattella germanica</i> ,
phlebotomus, Culicoides	Leishmania spp. in, in Kirgizia 1688	DDT sensitivity to 1736
Phlebotomus duboscqi	seasonal abundance of 1576	magnesium-activated, in Periplaneta
diel activity in 2147	Phlebotomus simici, taxonomy of 869	americana nervous system, not
hosts of 2147 in Senegal 2147	Phlebotomus stantoni, in India 1262 Phoma, in, Culicidae, in Ukraine 1757	inhibited by DDT 552 potassium-sodium-activated
in rodent burrows, in Senegal 2147	Phoridae, in Czechoslovakia 204	in Amblyomma hebraeum salivary
Leishmania major in, in Senegal 2147	Phormia, control of, traps for 895	glands, properties of 2740
Phlebotomus kazeruni, in Saudi Arabia	Phormia regina	in Glossina morsitans gut 2995
Phlobotomus loslovas (see Sergentomyia	control of 2524	in Periplaneta americana antennae
Phlebotomus lesleyae (see Sergentomyia lesleyae)	growth regulators for 464 enzymes in 2712	3153 in <i>Periplaneta americana</i> nervous
Phlebotomus major	feeding preferences in, role of	system, not inhibited by DDT 552
in India 1262	carbohydrate reserves in 1619	in Sarcophaga nodosa gut 2995
in Italy 764	in USA 1346, 2524	Phosphatase, alkaline
in Romania 1788	insecticide susceptibility in, role of	in Aedes aegypti Malpighian tubules,
in animal housing, in Italy 764 Phlebotomus major wui	microsomal oxidase in 2712 labellar taste hairs in, age-related changes	effects of Dirofilaria repens on 101 in Periplaneta americana salivary glands
biology of 421	in 1370	786

Phosphatase, glycerol 2-, in Musca domestica head, activity pattern of 460 Phosphate

in rice-field soils, relation of Chironomidae and 1624 in Simulium breeding water 2666 Phosphine, WHO data sheet on 3122

Phosphinothioic amide, P,P-bis(1-aziridinyl)-N-cyclohexyl-, in Lucilia cuprina, toxicity of 1609

Phosphinothioic amide, P,P-bis(1-aziridinyl)-N-methyl-

in air, determination of 2272 sterilant for

Cimex hemipterus 43 Glossina morsitans 762 vapour pressure of 2272

Phosphoglucoisomerase (see Isomerase, glucose phosphate) Phosphoglucomutase (see Phosphomutase,

glucose) Phosphogluconate oxidative pathway, in Musca domestica 157

Phosphoglucose isomerase (see Isomerase, glucose phosphate)

Phospholipase A₂
in Apis mellifera venom, allergenicity of 3381

in man, antibodies to 2459 in rat, cardiovascular effects of 1929 in Vespid venoms 3381

Phospholipids

in Argas arboreus, developmental changes in 2757

in Boophilus decoloratus eggs 2210 in Dermacentor andersoni, developmental changes in 2757

Phosphomutase, glucose

in Culex pipiens polymorphism of 774 variability of 1571 in Lutzomyia umbratilis 140

in Phlebotominae, use as taxonomic character of 2967 in Simulium damnosum complex, use as taxonomic character of 3314

in Toxorhynchites splendens, alleles of isoenzymes

in Hyalomma, use in taxonomy of 934 in Triatoma infestans

Phosphonic acid, phenyl-

ethyl 4-nitrophenyl ester
in Musca domestica
EPN metabolite 206
metabolism of 206
Phosphonic acid, (2,2,2-trichloro-1hydroxyethyl)-, dimethyl ester (see Trichlorphon)

Phosphonium, decyltriphenyl-, Phosphonium, decyltriphenyl-,
bromochlorotriphenylstannate(1-), in
Musca domestica, effects on ovarian
development of 473

Phosphonothioic acid, phenylO-ethyl ester, in Musca domestica, EPN
metabolite 206
O-ethyl O-(4-nitrophenyl) ester (see EPN)
O-ethyl O-8-quinolinyl ester (see
Quintiofos)

Phosphoramidothioic acid

Phosphoramidothioic acid O-ethyl S-phenyl ester

in Tenebrio molitor, inhibition of juvenile hormone esterase by in Trichoplusia ni, inhibition of juvenile

hormone esterase by 2795

Phosphoramidothioic acid, acetyl-, O,Sdimethyl ester (see Acephate)

Phosphoribosyltransferase, adenine, in
Anopheles albimanus 1213

Phosphoribosyltransferase, hypoxanthine, in Anopheles albimanus 1213 Anopheles albimanus

Anophetes albimanus 1213

Phosphoric acid
2-chloro-1-(2,4-dichlorophenyl)ethenyl
diethyl ester (see Chlorfenvinphos)
2-chloro-3-(diethylamino)-1-methyl-3-oxo1-propenyl dimethyl ester (see
Phosphamidon)

2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl ester, (Z)- (see Tetrachlorvinphos)

2-chloro-1-(2,4,5-trichlorophenyl)ethenyl methyl ester, (Z)-, in cattle, tetrachlorvinphos metabolite 1451

Phosphoric acid contd.

1,2-dibromo-2,2-dichloroethyl dimethyl ester (see Naled)

2,2-dichloroethenyl dimethyl ester (see Dichlorvos) diethyl 4-nitrophenyl ester (see Paraoxon)

dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl ester, (E)- (see

Monocrotophos)
3-(dimethylamino)-1-methyl-3-oxo-1propenyl dimethyl ester, (E)- (see Dicrotophos)

triphenyl ester

in Musca domestica, inducing mixed function oxidase 909 synergist for, trichlorphon 2604

tris(2-methylphenyl) ester

sterilant for

Acheta domesticus 673

Musca domestica 673

synergist for, trichlorphon 2604
tris(4-nitrophenyl) ester
against, Periplaneta americana 1681
in rat, toxicity of 1681

Phosphoric triamide, hexamethyl- (see

Hempa)

Phosphorodithioic acid

S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl ester (see Phosalone)

S-[[(4-chlorophenyl)thio]methyl] O,Odiethyl ester (see Carbophenothion)
S-[(5,7-dichloro-2-benzoxazolyl)methyl]
O,O-diethyl ester (see Benoxafos)
O,O-diethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] ester (see Azinphos-

ethvl)

S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2yl)methyl] O,O-dimethyl ester (see Phosmet)

O,O-dimethyl S-[2-(methylamino)-2-

O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester (see Dimethoate)
S,S'-1,4-dioxane-2,3-diyl O,O,O',O'-tetraethyl ester (see Dioxathion)
S-[(2-ethylamino)-2-oxoethyl] O,O-dimethyl ester (see Ethoate-methyl)
S-[2-(formylmethylamino)-2-oxoethyl] O,O-dimethyl ester (see Formothion)
S,S'-methylene O,O,O',O'-tetraethyl ester (see Ethion) (see Ethion)

Phosphorofluoridic acid, bis(1-methylethyl) ester, in Trichoplusia ni, esterase inhibition by 2795

Phosphorothioic acid

nospnorothouc acid

O,O-bis(1-methylethyl) S-(phenylmethyl)
ester, with trichlorphon, against, Culex
pipiens 2604

O-(4-bromo-2-chlorophenyl) O-ethyl Spropyl ester (see Profenofos)
O-(4-bromo-2,5-dichlorophenyl) O,Odictable actor (see Permenboa, thyl)

diethyl ester (see Bromophos-ethyl) O-(4-bromo-2,5-dichlorophenyl) O,O-

O-(4-bromo-2,5-dichlorophenyl) O,O-dimethyl ester (see Bromophos)
O-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) O,O-diethyl ester (see Coumaphos)
O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl ester (see Iodofenphos)
O-(2,4-dichlorophenyl) O,O-diethyl ester (see Dichlofenthion)
O-(3-diethyl O-(6-methyl-2-(1-

O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] ester (see

Diazinon) O,O-diethyl O-[3-methyl-4-

(methylthio)phenyl] ester against, Lucilia cuprina, on sheep 169 resistance to, in, Lucilia cuprina, in Queensland 194

O,O-diethyl O-[4-(methylsulfinyl)phenyl] ester (see Fensulfothion)

O,O-diethyl O-(4-nitrophenyl) ester (see Parathion)

O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester (see Chlorpyrifos)
O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-diethyl ester (see Pirimiphos-ethyl)

O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-dimethyl ester (see Pirimiphos-methyl)

O-(1,6-dihydro-6-oxo-1-phenyl-3-pyridazinyl) O,O-diethyl ester resistance to, in, Culex pipiens 2604 Phosphorothioic acid contd.

O-(1,6-dihydro-6-oxo-1-phenyl-3pyridazinyl) O,O-diethyl ester contd. with trichlorphon, against, Culex pipiens 2604

O,O-dimethyl S-[2-(methylamino)-2oxoethyl] ester (see Omethoate) O,O-dimethyl O-[3-methyl-4-

(methylthio)phenyl] ester (see Fenthion)

O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (see Fenitrothion)
O,O-dimethyl O-(4-nitrophenyl) ester (see Parathion-methyl)

O,O-dimethyl S-(phenylmethyl) ester, with trichlorphon, against, Culex pipiens

O,O-dimethyl O-(2,4,5-trichlorophenyl)

ester (see Fenchlorphos)
O,O-dimethyl O-(3,5,6-trichloro-2pyridinyl) ester (see Chlorpyrifosmethyl)

O-[4-[(dimethylamino)sulfonyl]phenyl]
O,O-dimethyl ester (see Famphur)
O-(2-ethoxyethyl) O,O-bis(4-nitrophenyl)

ester against, Periplaneta americana anticholinesterase activity of 23 hydrolysis of 23

in rat, toxicity of 23
O-ethyl O-methyl O-(2,4,5trichlorophenyl) ester, against, Wohlfahrtia magnifica, on sheep

O,O'-(thiodi-4,1-phenylene) O,O,O',O'-tetramethyl ester (see Temephos)

O,O,O-tris(4-nitrophenyl) ester against, Periplaneta americana in rat, toxicity of 1681

Phosphorotrithioic acid S,S,S-tributyl ester

in Musca domestica, inducing mixed function oxidase 909

synergist for, pyrethroids 2353 Phosphorus

isotope of mass 32 Culicidae labelled with 3294

Delia antiqua labelled with 754 Musca domestica labelled with Phosphorylase

in Heterometrus fulvipes pedipalp muscles 2783

in Periplaneta americana hind-gut, regulation of 336

Photoperiod, insect responses to, review 2278

Phoxim (4-ethoxy-7-phenyl-3,5-dioxa-6-aza-4-phosphaoct-6-ene-8-nitrile 4-sulfide) against

Chorioptes bovis 504 Musca domestica 189 Psoroptes bovis 504 1893

Sarcoptes scabiei, on pig 1959 resistance to, in, Culex pipiens 2604 Phthalic acid (see 1,2-Benzenedicarboxylic acid)

Phthalophos (see Phosmet) Phthiraptera

bacteria in, in Kirghizia 1033 Dermatophilus congolensis in, transmission of

evolution of 2311 in Iraq 3142 in West Malaysia 2803

on birds, in Kirghizia 1033 on fowl, in Nigeria 2013 on Peromyscus maniculatus, reinfestation

2002

on Sylvilagus floridanus, in USA 1155 on vertebrates, in Afrotropical region,

book 1177 Rickettsia mooseri in, transmission of 2321

zoogeography of 2311 Physconelloides

on Columbinae 2566 taxonomy of 2566 Physocephalus sexalatus

in, Aphodius sticticus, in Bulgaria 689 vectors of 316

Phytoseiidae, predation by, model 1369 Pica pica, famphur in, toxicity of 3009

picea, Formica (see F. transkaucasica)

picea, Haematopota Picoides tridactylus, Ceratophyllus adustus in nests of, in Alaska 1187 picta, Pharyngomyia pictipes, Rhodnius pictipes, Simulium pictus, Chrysops pictus, Dermacentor Pies, naled in, uptake from air of 2266 Pig (Sus scrofa domestica) Anopheles sinensis on, in Honshu 2907 arthropod pests of, in Queensland 16 Cochliomyia hominivorax on, in Netherlands Antilles 457 Culex pipiens on, in Honshu 2908 C. tritaeniorhynchus on, in Honshu 2907 ectoparasites of, in Philippines 2813 Glossina palpalis on in Cameroon 1700 in West Africa 1873 G. tachinoides on, in West Africa 1873 Haematopinus suis on effects of 985 in German Democratic Republic 802 in German Federal Republic 346, 1959 in Ontario 1743 Japanese encephalitis, virus in, in China 1827 Ornithodoros moubata on 3060 Peaton virus in, antibodies to 1253 Phthiraptera on, in Afrotropical region, book 1177 Sarcoptes scabiei on distribution pattern of 999 effects of 985 in German Federal Republic 1959 in Indonesia 2806 in Norway 1424, 1425 in Sweden 1661 symptoms of 999 Simulium spp. on, feeding by 2981 Trypanosoma brucei in in Ivory Coast 1872 in West Africa 1869, 1873
Vespula spp. on, effects of 914
Yersinia enterocolitica in, in Japan 880 Pig blood diet component for, Glossina morsitans 1093 sterilisation of, y-irradiation for 1093 fly control in, insect growth regulators for 2436 Staphylinidae in, in USSR 1057 Pig farms fly control in 467 Musca domestica in in Florida 367 in UK 467 Stomoxys calcitrans in, in USA 904 synanthropic flies in, in USSR 1040 Pig housing fly control in insecticide-treated glassfibre strips for 455 pyrethrins for 3350 mosquito control in, insecticides for 1827 Musca domestica in in Florida 455 in German Democratic Republic 3350, 3351 pest control in, insecticide mist generator for 3351 Pig waste Culex quinquefasciatus in, in North Carolina 374 mosquito control in 374 Pig-waste lagoons insect fauna of, effects of organic pollution on 1814 pest control in 1814 Pigeon (Columba livia) Argas persicus on, development of 718
A. robertsi on, development of 2815
Argasidae on, in Iran 2211
Campanulotes spp. on 1495
Culiseta longiareolata on, feeding by

2364

of 244

Hyalomma marginatum on, development

Pigeon contd. Ornithochevletia hallae on, interactions between Micromonospora chalceae and 922 Ornithocoris toledoi on, feeding by 1747 Rhodnius pallescens on, in Panama 2576 R. robustus on 2019 Pigeon housing, Rhodnius pallescens in, in Panama 2576 pilae, Knemidokoptes pilosifemura, Haematopota Pimephales promelas
predation by, effects of aquatic vegetation
on 2936
preying on, Aedes aegypti 2936 Pine resin bait component for, Musca domestica 3018 in Culex molestus, inhibiting development 1011 in quail, not affecting development 1011 Pineapple (Ananas comosus) Aedes simpsoni in axils of, in Nigeria
591 pionips, Aedes Piophila casei in Romania 453 in USSR 884 on man, in Belorussia 884 parasites of, in Romania 453 Piperazine, 1-(4-cyclohexyl-1-oxobutyl)-4methylrepellent for Anopheles albimanus 1813 A. quadrimaculatus 1813 1-Piperazinecarboxamide, N,N-diethyl-4-methyl- (see Diethylcarbamazine) Piperidine, 1-benzoyl-, repellent for, Aedes aegypti 2374 Piperidine, 1-dodecyl-, against, Psoroptes spp. 2488 Piperidine, 1-(3-methylbenzoyl)-, repellent for, Aedes aegypti 2374
4-Piperidinecarboxylic acid, in Periplaneta americana, effects on central neurons of 4-Piperidinesulfonic acid, in Periplaneta americana, effects on central neurons of 2842 Piperonyl butoxide (5-[[2-(2butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole) in Musca domestica, inhibiting mixed function oxidase 909 synergist for nergist for bioresmethrin 1143 carbamates 2265 carbaryl 2712 DDT 2353, 3238 propoxur 2712 pyrethrins 1143, 1176, 1498 pyrethroids 1193, 2353 1507 with pyrethrins, antagonistic with tetramethrin, antagonistic 1507 pipiens, Culex Pipistrellus abramus, Leptotrombidium laxoscutum on, in China 3099 Pipistrellus pipistrellus, Acari on, in Uzbekistan 1071 Pirimiphos-ethyl (O-[2-(diethylamino)-6methyl-4-pyrimidinyl] O,O-diethyl phosphorothioate) resistance to, in, Culex pipiens 2604 Pirimiphos-methyl (O-[2-(diethylamino)-6methyl-4-pyrimidinyl] O,O-dimethyl phosphorothioate) against Aedes cantans 8 A. vexans 2942 828, 2942 Anopheles balabacensis 624 Culex molestus 401 Ixodes ricinus 1639 Limnophyes minimus, in sewage systems 2168 Metriocnemus hygropetricus, in sewage systems 2168, 2719 in aquatic habitats, non-target effects of 2942 on walls, persistence of 401 with fertilizers 2942 Piroplasma bigeminum (see Babesia bigemina) Piroplasmea, phylogeny of 2624

Piroplasmosis (see Babesiosis) Pistia, Mansonia spp. associated with, in Kerala 2057 pisum, Acyrthosiphon Pit latrines Chrysomya chloropyga in, in Tanzania 2928 Culex quinquefasciatus in, in Tanzania 2928 fly control in, traps for 2928 pithecius, Catharsius Pitymys irene, Genoneopsylla claviprocera on, in China 2864 Pitymys leucurus, Amphipsylla kulkarnii on, in Nepal 3186 Pitymys sikimensis, Amphipsylla kulkarnii on, in Nepal 3186 Plague (see also Yersinia pestis) in Brazil 1751 in California 2319 in Iran 364 in USA 2317 prophylaxis against treatment of 2317 50 Plankton, pesticides in, non-target effects of 1987 Plant containers, Aedes aegypti in, in Fiji 412 Plant oils, naled in, uptake from air of 2266 Plants pesticides in, penetration of 2503 Simulium spp. on, in Togo 1581 Plasmodium book 2259 control of, vector control for 5, 2372, 2380 im Anopheles spp., infectivity of A. culicifacies, in Delhi 3222 A. darlingi, transmission of 326 A. nuneztovari, transmission of Culicidae, transmission of 3284 man, in Pakistan 617 vectors of 2801, 3194 virus-like inclusions in 142 Plasmodium berghei Anopheles gambiae, infectivity of, genetics of 616 A. stephensi effects of sulfadoxine on 90 effects on amino acids of 1199 increasing susceptibility to bacteria pathogenicity of 1198 Plasmodium cynomolgi in Anopheles stephensi, development of A. sundaicus, transmission of 2058 Macaca umbrosus, in Andaman and Nicobar Islands 2058 man, in Andaman and Nicobar Islands 2058 Plasmodium falciparum drug resistance in, in Brazil 1767 Anopheles spp. infectivity of 405 transmission of 2128 A. freeborni, infectivity of 618 A. gambiae, infectivity of, through membranes 1549 A. koliensis, in Irian Jaya A. pseudopunctipennis, not infective 843 A. punctulatus, in Irian Jaya 1776 man in Andaman and Nicobar Islands 2058 in Brazil 1767 in France 3198 in Irian Jaya 1776 in Rajasthan 572 in Saudi Arabia 623 vectors of 572 Plasmodium gallinaceum, in, Aedes aegypti, development of 2624, 3196 Plasmodium hermani Culex nigripalpus, in Florida 837 turkeys, in Florida 837

r iasmoutum mui	piumosus, Caironomus	Poly(oxy-1,2-etnanealy1), α-nyaro-ω-
in -	pluridens, Cheyletus	hydroxy-, in Musca domestica,
Anopheles takasagoensis, transmission	pluvialis, Haematopota	permeability of Malpighian tubules to
of 2070	pluvialis, Hybomitra	3029
monkey, in Taiwan 2070	Plywood, Dermestes maculatus in, damage	Polypedilum, in California 2118
Plasmodium malariae, in, man, in Andaman	caused by 3057	
		polyphemus, Limulus
and Nicobar Islands 2058	Poecilia reticulata	Polyplax asiatica
Plasmodium simium	food preferences in 3213	in Burma 1496
in	preying on	on Bandicota bengalensis, in Burma
Anopheles spp., infectivity of 576	Culex quinquefasciatus 3213	1496
Aotus trivirgatus, infectivity of 576	Culicidae, and biological control using,	Polyplax borealis
Plasmodium vivax		in USSR 2571
	in polluted water 2094	
in A of the contract of the co	Tubifex tubifex 3213	on small mammals, in USSR 2571
Anopheles spp.	temperature requirements of 2094	Polyplax opimi
development of 1041	Pogonomyrmex, venoms of, toxicity to	sp. nov., description of 341
infectivity of 834	mouse of 2205	in USSR 341
transmission of 2128		on Rhombomys opimus, in Tadzhikistan
A. albimanus, infectivity of 2896	Pogonomyrmex badius, venom of 231	341
A. balabacensis, infectivity of 2896	Pogonomyrmex barbatus, venom of 231	
	Pogonomys macrourus, Laelaps spp. on, in	Polyplax paradoxa, taxonomy of, characters
A. culicifacies, infectivity of 2896	Papua New Guinea 1416	distinguishing P. opimi and 341
A. freeborni, transmission of 2896	Poland	Polyplax reclinata
A. maculatus, transmission of 834,		in Burma 1496
2896	Ceratophyllus gallinae in, on fowl 2564	in Poland 557
A. pseudopunctipennis, not infective	Chaetopsylla matina in, on Martes 51	on Crocidura leucodon, in Poland 557
843	Chironomidae in 1917	on Suncus murinus, in Burma 1496
man	Conchapelopia melanops in, natural	Polyplax serrata
in Andaman and Nicobar Islands	enemies of 679	in USSR 2571
2058	Dermacentor reticulatus in 238	on small mammals, in USSR 2571
in France 3198	Dermanyssus gallinae in, on fowl 2564	Polyplax spinulosa
in Saudi Arabia 623	Goniocotes gallinae in, on fowl 2564	in Burma 1496
vectors of 1552		on rat, effects of riboflavin on
Plasmodium yoelii	Lucilia sericata in, on sheep 2707	susceptibility to 1179
gametocytes of 57	Menacanthus stramineus in, on fowl	on small mammals, in Burma 1496
	2564	
m	Menopon gallinae in, on fowl 2564	Polystyrene (see Benzene, ethenyl-,
Anopheles spp., infectivity of 57	Mustela spp. in, arthropod parasites of	homopolymer)
A. gambiae	323	Polyurethanes (see Urethane polymers)
loss of infectivity of 824		Poly(vinyl chloride) (see Ethene, chloro-,
not affected by insecticides 824	Natarsia punctata in, natural enemies of	homopolymer)
pathogenicity of 824	679	pomerantzevi, Ixodes
A. stephensi	Neopodocinum mrciaki in, on	pomeranzevi, Neotrombicula
effects of 4-aminobenzoic acid on 90	Clethrionomys 729	
		pomposa, Tipula
not affected by insecticides 824	plague prevention in 50	pomposum, Amblyomma
transmission of, effects on virulence	Polyplax reclinata in, on Crocidura 557	Ponds
of 610	Scarabaeidae in 3054	Aedes spp. in, in Finland 2957
Platanus, Ceratopogonidae in holes in, in	Simuliidae in 2391	Chaoborus astictopus in, distribution
Spain 129	on aquatic plants 2394	pattern of 2414
Platyhelminthes 3148	Uropoda orbicularis in, on small	Culex quinquefasciatus in, sampling of
in, man, book 1153	mammals 1655	2116
Platyhelminths, index-catalogue 3148	Polistes	Culicidae in
platypalpus, Myrmarachne	common names of 2457	effects of aquatic plants on 1243
Plecia nearctica	on man	in Missouri 3211
in Mexico 212	hypersensitivity to 1930	plant associations of 384
mating in 212	diagnosis of 2455	Culicinae in, in Nigeria 602
Plecoptera	venoms of 1930, 2455	Cyprinodon macularius in, effects on
in rivers		
		ecosystem of 1543
as indicators of effects of insecticides	Polistes gallicus, in Malta 1384	diflubenzuron in, residues of 2109
1292	Polistinae, in British Isles 691	emergence trap for use in 3252
effects of methoxychlor on 1281	Pollenia	Gambusia affinis in, effects on ecosystem
methoxychlor in, toxicity of 2980	in Thailand 662	of 1543
Pleistophora, in, Simuliidae, in Guatemala	landing reaction in, ocelli, dark adaptation	insect growth regulators in, non-target
144	and 2179	effects of 3013, 3024
Pleistophora culicis, against, Culex	Pollenia pectinata, in China 214	midge control in, insect growth regulators
		for 2412
quinquefasciatus 3136	Pollenia rudis	for 2412
Pleistophora debaisieuxi	in USA 1346	mosquito control in 3207, 3208
in	landing response in 823	predatory insects in, effects of aquatic
Simuliidae	Polleniopsis, in Thailand 662	plants on 1243
in Guatemala 144	Pollinators, pesticides in, non-target effects	Ponds, garden, mosquito control in, Bacillus
in Ukraine 1059	of 1987	thuringiensis for 1798
Simulium spp., in German Federal	polonicus, Acanthophthirius	Ponds, temporary, Aedes spp. in, sampling
Republic 1268	Polyctenidae, combs in, functions of 2309	of 1811
Pleistophora multispora		pontifica, Suidasia
	Polyethylene glycol (see Poly(oxy-1,2-	
In Simuliidae in Customale 144	ethanediyl), α-hydro-ω-hydroxy-)	pontiger, Haemogamasus
Simuliidae, in Guatemala 144	Polygalacturonase, in Haematobia irritans	Pools
Simulium spp., in German Federal	gut 3369	Anopheles subpictus in, in Indonesia
Republic 1268	Polygenis	1777
Pleistophora simulii	on Rodentia	Culex quinquefasciatus in, in Tamil Nadu
in	in Argentina 321, 357	2600
Simuliidae, in Ukraine 1059	in Brazil 1751	Culicidae in
Simulium spp., in German Federal	Polygenis nitidus	in Hokkaido 3271
Republic 1268	in Brazil 1751	productivity of 2958
Pleistophora turgenica, taxonomy of,	on Proechimys, in Brazil 1751	Pools, rock, Aedes togoi in, in Washington
transferred to Diffingeria 1890	Polygenis tripus	State 2927
pleskei, Neopsylla	Allantonematidae in, in Brazil 3185	Pools, snow
Plifenate (see Benzenemethanol, 3,4-	in Brazil 3185 -	Aedes spp. in, in Hokkaido 3271
dichloro-α-(trichloromethyl)-, acetate)	on Zygodontomys lasiurus, in Brazil	A. communis in, in Hokkaido 603
Ploceidae	3185	A. punctor in, in Hokkaido 603
arthropod parasites of, in Kirghizia 1033	Polygonum pennsylvanicum, Aedes vexans	poppei, Typhloceras
	oviposition sites associated with 2612	Population dynamics
bacteria in, in Kirghizia 1033		
Plodia interpunctella, control of, growth	polynesiensis, Aedes	asymmetrical competition in insects 2282
regulators for 1453	Polyoxin D	model 1369
Plotox (see Lindane, with trichlorphon)	in Stomoxys calcitrans	time-delay model of laboratory insect
plumbeum, Hyalomma (see H. marginatum)	inhibiting chitin synthase 1901	populations 669
nlumbeus Anonheles	inhibition of chitin synthesis by 452	norcinus Ornithodoros mouhata

Porocephalus crotali, on Crotalus atrox, development of 2500 Porribius pacificus in New Zealand 2312 on bat, in New Zealand 2312 portentosa, Gromphadorhina Portugal Culiseta longiareolata in 1532 Phlebotominae in 1843 Spilopsyllus cuniculi in, on rabbit 2336 Tabanidae in 451 Tabanus darimonti in 3368 Xenopsylla cunicularis in, on rabbit 2336 postfoliatum, Leptotrombidium posticatum, Simulium osticus, Eublaberus Potamogeton, Simulium penobscotensis associated with, in Maine 1848 Potamogeton pectinatus, Tilapia zillii on, and biological control using, in California 2345 Potassium in Calliphora vicina, recycling in rectum of 2175 in Nauphoeta cinerea salivary glands, transport of 333 in rat, levarterenol release caused by 3115 in rat salivary glands, Tityus serrulatus venom stimulating secretion of 278 in Simulium breeding water 2666 Potassium cyanide, in Musca domestica, reversing tyrosinase inhibition of aldrin epoxidase 1371 Potassium hydroxide, in Simuliidae, morphological changes caused by Potato (Solanum tuberosum)
Periplaneta americana on, feeding by 28
Potato (stored tubers), naled in, uptake from air of 2266 Potos flavus, Lutzomyia umbratilis on, in French Guiana 2969 potteri, Geomydoecus Poultry carbaryl in, toxicity of 32 carbaryl in, toxicity of 32
diazinon in, toxicity of 1718
ectoparasites of 2837
in Philippines 2813
Goniocotes gallinae on, in Haryana 32
lindane in, residues of 2509
malathion in, toxicity of 32
Mallophaga on, in Spain 340
Menopon gallinae on, in Haryana 32
Ornithonyesus sulvigurum on in Israel Ornithonyssus sylviarum on, in Israel 290 pest control on, Bacillus thuringiensis for 1048 tick-borne bacteria in, pathogenicity of 247 4-74 in, toxicity of 1718 Poultry dung
Alphitobius diaperinus in, in England Carcinops pumilio in, in England 486 Coleoptera in, in North Carolina 226 Dermestes maculatus in development of 3057
in England 486
Musca domestica in, in Hawaii 480
M. sorbens in, in Hawaii 480
Poultry eggs, lindane in, residues of 2509
Poultry eggs, lindane in, residues of 2509 Poultry farms fly control in, baits for 3017 Musca domestica in, in Turkey Stomoxys calcitrans in, in USA Poultry feed Musca domestica larval meal as component of 1623 Phormia terraenovae larval meal as component of 1623 Poultry housing arthropod fauna of, in England 1717 Dermestes maculatus in, damage caused by 3057 Lutzomyia intermedia in, in Brazil 2970 pest control in 3057 insecticide duster for 1601

Poultry-waste lagoons

insect fauna of, effects of organic pollution on 1814

pest control in 1814

Powassan virus, tick transmission of 3137

powelli, Amyrsidea

Poxviridae Chironomus decorus, transovum transmission of 448 invertebrates, review 525 Praomys natalensis Ixodes calcarhebes on, in Zambia 249 Oestromyia leporina on, effects of 1336 Siphonaptera on, in Tanzania 2030 Precipitin tests for identifying insects in predator guts 1483 for identifying Triatomine blood-meals 2576 25/6
in predator-prey studies, review 1482
Precocene I (see 2H-1-Benzopyran, 7methoxy-2,2-dimethyl-)
Precocene II (see 2H-1-Benzopyran, 6,7dimethoxy-2,2-dimethyl-)
Predator-prey interactions, book 3146
Prepara 4 no 320 diago (see Presente represente Pregn-4-ene-3,20-dione (see Progesterone) primaris, Amphipsylla
Primates, Phlebotominae on, in Panama 2150 Primulin, marker for, Siphonaptera 360 Prince Edward Island, Ixodoidea in, on small mammals 720 **Procladius** in California 2118 in flood-control systems, in California 2413 preying on Chironomidae, in Poland 1917 Entomostraca, in Poland 19 Oligochaeta, in Poland 1917 1917 temephos resistance in, in California 2413 Procladius crassinervis in Japan 1624 in rice-fields, effects of fertilizers on 1624 Procladius sublettei emergence in 1905 in USA 1905 Proctolaelaps, in rodent nests, in Transbaikalia 1032 Proctolin in insects, book 3144 in Lucilia sericata, membrane 211 depolarisation caused by in Periplaneta americana, activity of analogues of 1487 in Tabanus proximus, effects on oviduct contractions of 3341 Procyon lotor Dermacentor variabilis on, in Connecticut 248 Ursicoptes procyoni on, in Iowa 737 procyoni, Ursicoptes Proechimys Lutzomyia umbratilis on, in French Guiana 2969 Siphonaptera on, in Brazil 1751 Procedimys cuvieri, Leishmania spp. in, in French Guiana 1154 Profenofos (O-(4-bromo-2-chlorophenyl) Oethyl S-propyl phosphorothioate) against Culex pipiens 761
Musca domestica 761
anticholinesterase activity of 761 in mouse, toxicity of 761
selective toxicity of 761
Progesterone (pregn-4-ene-3,20-dione)
in cattle, effects of Stomoxys calcitrans on 1131 Proline oxidase (see Reductase, pyrroline-5carboxylate) L-Proline in Aedes togoi, utilisation by Brugia patei in Aedes togot, utilisation by Brugia pa of 68 in Aldrichina grahami, synthesis from glutamate of 684 in Anopheles atroparvus, utilisation by Brugia patei of 68 in Anopheles stephensi, effects of Plasmodium berghei on 1199 in Cochliomyia macellaria, glutamate product during anaerobic metabolism 1359 in Culex pipiens, effects of Romanomermis culicivorax on 1229

prolixus, Rhodnius

Promecarb (3-methyl-5-(1methylethyl)phenyl methylcarbamate) against, Culex molestus 401 on walls, persistence of 401 Promuricheyla lukoschusi gen. et sp. nov., description of 2480 in Philippines 2480 on Nannosciurus surrutilus, in Philippines 2480 Propanal, attractant for, Glossina spp. 1881 Propanamide, N-[2-amino-3-nitro-5-(trifluoromethyl)phenyl]-2,2,3,3tetrafluoro-, against, Boophilus microplus, on cattle 975 1,2-Propanediol, 3-(2-methoxyphenoxy)-, 1carbamate (see Methocarbamol) 1,3-Propanediol, 2-butyl-2-ethyl-, with Nbutyl-N-phenylacetamide, and phenylmethyl benzoate, repellent for, Amblyomma americanum, on man 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, in Cochliomyia macellaria, decreasing during anaerobic metabolism 1359 Propanoic acid, Culex oviposition responses to 1209 Propanoic acid, 2-hydroxy- (lactic acid) in Heterometrus fulvipes, during anoxia 2494 Propanoic acid, 2-methyl-Culex oviposition responses to 1209 ineffective as flushing agent for Panstrongylus megistus 1507
2-Propanol, against, Sternostoma tracheacolum, on canary 1413
2-Propanone, attractant for, Glossina spp. 1881, 2997 2-Propenoic acid, 3-(3,4-dihydroxyphenyl)-, in Musca domestica, effects on pupariation of 188 Propetamphos (1-methylethyl (E)-3-[[(ethylamino)methoxyphosphinothioyl)oxy]-2-butenoate) against Culex molestus 401 Ixodoidea Lucilia cuprina Psoroptes ovis 757
on walls, persistence of 401
Propionic acid (see Propanoic acid)
Propoxur (2-(1-methylethoxy)phenyl methylcarbamate) against Aedes aegypti 2640 A. vexans 2040 Anopheles annularis 1775 A. arabiensis, in dwellings A. culicifacies 1775, 3218 A. gambiae, in dwellings 829
A. nigerrimus 1775 A. pulcherrimus 1775 A. stephensi 1775, 2640 A. subpictus 1775, 2640 Armigeres subalbatus Blattaria 788 Blattella germanica 771
Ctenocephalides felis, on dog 2028
Culex molestus 401
C. pipiens 2040 quinquefasciatus 2353, 2640 sitiens 2640 tritaeniorhynchus 2640 whitmorei 2640 Culicidae 1712 Musca domestica 301 Pediculus capitis 345 Periplaneta americana 23, 1681
Triatominae, in dwellings 1137
in Calliphoridae, relation of microsomal oxidase and tolerance to 2712
in flea collars 2028 on building materials, persistence of 203, on walls, persistence of 401 N-phenylsulfonyl derivatives of insecticidal activity of 2265 resistance to, in, Culex quinquefasciatus, development and loss of 2110 synergists for, piperonyl butoxide as 2712 propria, Schoengastia

Subject Index		547
Prosimuliini	Proteins contd.	Pruritus contd.
maxillary sensilla in 3309	in Calliphora vicina hemolymph,	in man contd.
taxonomy of 1846 Prosimulium	in Centruroides limpidus venom 522	caused by Cheyletiella 983, 1965
control of, biological 3313	in Cimex hemipterus mycetocytes 2301	caused by Culicidae 1764 caused by <i>Demodex</i> 726
in Transbaikalia 1067	in Culex nigripalpus ovaries 91	caused by ectoparasites from pet
in streams, in Newfoundland 3313	in Culex pipiens hemolymph, effects of	animals 1417
maxillary sensilla in 3309 Prosimulium alpestre (see Ahaimophaga	Romanomermis culicivorax on 1227, 1229	caused by Oeciacus vicarius 44 caused by Ornithodoros amblus 275
alpestris)	in Culex pipiens ovaries 407	caused by Pthirus pubis 348
Prosimulium hirtipes	in Glossina morsitans fat-body, synthesis	caused by Pyemotes ventricosus 1657
habitats of 1076 in USSR 1076	during pregnancy of 1094 in Glossina morsitans milk glands,	caused by <i>Pyemotes zwoelferi</i> 1967 caused by <i>Sarcoptes scabiei</i> 3417
overwintering in 1076	synthesis during pregnancy of 1094	in pig, caused by Haematopinus suis 985
Prosimulium hydroides	in Haematobia irritans ovaries 898	in Zalophus californianus, caused by
habitats of 1076 in USSR 1076	in Haematopota pluvialis salivary glands, sex differences in 187	Orthohalarachne diminuata 1423 Przhevalskiana, in Tadzhikistan 154
overwintering in 1076	in Heterometrus scaber venom 3434	Psacadina verbekei, in France 1349
Prosimulium karibaense	in Leucophaea maderae ovaries, synthesis	pseudagyrtes, Ctenophthalmus
sp. nov., description of 1583 in Japan 1583	of 2558 in Lucilia sericata diet, effects on	pseudarctomys, Opisodasys Pseudarmigeres, in tree holes, in Kenya
on man, in Hokkaido 1583	neurosecretory system of 3358	2876
Prosimulium mixtum	in Musca autumnalis diet, effects on	pseudequinum, Simulium
control of, repellents for, evaluating of 1856	nematode development of 3025 in <i>Musca domestica</i> eggs, effects of γ-	Pseudogaurax lancifer (see Mimogaurax lancifer)
fecundity in, effects of blood-feeding on	irradiation on 478	Pseudolynchia canariensis, in Saudi Arabia
640	in Musca domestica larvae, effects of diet	2533
feeding behaviour in 425, 639 host preferences in 639	on 1364	pseudomaculata, Triatoma Pseudomonas
in USA 425	in Periplaneta americana, effects of thermal acclimation on 1490	in .
Mermithidae in, specificity of 643	in Periplaneta americana antennae 3153	Diptera, in Brazil 479
on man, in Maine 425	in Periplaneta americana brain, diel	sheep fleece, role in fleece rot and fly
Prosimulium subtibbelesi sp. nov., description of (in Twinnia)	changes in 799 in Periplaneta americana ovaries, effects of	strike of 174 Pseudomonas aeruginosa
2665	chemosterilants on 1165	control of, y-irradiation for 1093
in Japan 2665	in Rhodnius prolixus accessory glands,	in, Rhyzopertha dominica 1633
on birds, in Hokkaido 2665 Prosimulium yezoense	regulation of accumulation of 3170 in <i>Rhodnius prolixus</i> saliva 1509	Pseudomonas pyocyanea in
descriptions of 1583	in Sarcophaga bullata hemolymph, effects	Argas persicus, in Pakistan 247
taxonomy of, characters distinguishing P.	of abscisic acid on 3360	poultry, pathogenicity of 247
karibaense and 1583 Prostaglandin E ₁	in sheep fleece, role in fleece rot and fly strike of 174	Pseudomys, Laelaps elegans on, in Western Australia 1653
in Androctonus australis, effects on	in sheep plasma, Lucilia cuprina causing	Pseudomys albocinereus, Laelaps bycalis on,
temperature preferences of 3116	leakage to skin surface of 3039	in Western Australia 508
in Buthus occitanus, effects on temperature preferences of 3116	in Vespid venoms 3381 Proteus	Pseudomys occidentalis, Laelaps janalis on, in Western Australia 508
Prostaglandins, in Boophilus microplus	in	Pseudomys praeconis, Laelaps lybacia on, in
saliva 263	Blatta orientalis, in UK 3157	Western Australia 508
Prosthogonimus ovatus, vectors of 316 Protaetia fusca	Cochliomyia hominivorax, role in life- cycle of 1920	pseudoobscura, Drosophila pseudopunctipennis, Anopheles
in Japan 3382	Diptera, in Brazil 479	Pseudoscorpiones
in Philippines 3382	Protocalliphora	mounting media for 1149
in goat dung, in Bonin Islands 3382 Protective atmospheres, for γ -irradiation of	on birds, in USSR 1021 on Turdus iliacus, in USSR 2708	on Neotomodon, in Mexico 1458 pseudoscutellaris, Aedes
Glossina 1100	Protomyobia nepalensis	Pseudosmittia
Protective clothing	sp. nov., description of 1004	on Rhododendron, in Pennsylvania 3359
against Amblyomma americanum 1937 against pesticides 1684	in Nepal 1004 on Soriculus nigrescens, in Nepal 1004	sugar-feeding in 3359 pseudotenuicollis, Arrenurus
against ticks 1946	Protophormia terraenovae (see Phormia	pseudotitillans, Mansonia
Proteinase	terraenovae)	Pseudovespula germanica (see Vespula
in Aedes aegypti mid-gut 1527 in Bacillus thuringiensis formulations,	Protozoa book 2259	germanica) pseudovishnui, Culex
removal of 1536	in	Psilus gestroi
in Culex pipiens hemolymph, effects of	Culicidae, review 1783	in Romania 453
in Haematobia irritans gut 3369	insects defence mechanisms against 544	parasitising, Lucilia sericata, in Romania 453
in Leucophaea maderae mid-gut,	review 3136	Psocoptera, overwintering of, in birds' nests
properties of 1489	invertebrates, role in population	2005
in Rhodnius prolixus mid-gut 810 in Stomoxys calcitrans mid-gut, effects of	dynamics of 2839 man, book 1153	Psorergatoides, key 736 Psorergatoides desmodus
trypsin inhibitor on 2437	medically-important arthropods,	sp. nov., description of 736
Proteinase inhibitor	bibliography 2517	in French Guiana 736
in Boophilus microplus 960 in Leucophaea maderae mid-gut 1489	Tabanidae, in USSR 3040 index-catalogue of 1118	on Desmodus rotundus, in French Guiana 736
Proteins	insect control using 3118	Psorergatoides guyanensis
in Aedes aegypti, incorporation of dietary	non-target effects of 2258	sp. nov., description of 736
amino acids into 2047 in Aedes aegypti accessory glands,	review 1539, 1680, 3136 Provespa , check-list of 484	on Rhinophylla pumilio 736 Psorergatoides peropteryx
synthesis of 2602	Prowichmannia spinifera, in USSR 1053	sp. nov., description of 736
in Aedes aegypti Malpighian tubules, not	proximus, Tabanus	in French Guiana 736
affected by Dirofilaria repens 101 in Aedes aegypti ovaries 91	Prunella modularis, famphur in, toxicity of 3009	on Cormura brevirostris, in French Guiana 736
in Aedes atropalpus ovaries 91	Prurigo, in man, caused by Culicidae 1764	on Peropteryx macrotis, in French Guiana
in arthropod cuticle, techniques, book	Pruritus	736
3131 in Bos taurus \times B. indicus serum, effects	in cat, caused by Ctenocephalides felis 363	Psorergatoides surinamensis sp. nov., description of 736
of Chrysomya bezziana on 663	in cattle, caused by Psoroptes ovis 3427	on Tonatia nicaraguae 736
in Calliphora vicina	in dog, caused by Ctenocephalides felis	Psorophora
developmental changes in 1916 effects of methoprene on synthesis of	in guinea-pig, caused by <i>Trixacarus caviae</i>	control of, biological 1537 in Argentina 400
3354	510	in Canada 1533
effects of moulting hormones on	in man	in Cuba 849
synthesis of 3354	caused by arboviruses 1947	in Quebec 2881

r soropuora communae	r sychouldae comu.	I diex mitans conto.
control of 3278	preyed on by	in dwellings, in Burundi 49
biological 376, 2084	Myrmarachne platypalpus, in Punjab	medical importance of 2313
insecticides for 78, 1193, 2111	793	Pulex simulans
in USA 375, 376, 1193, 2084, 2111,	Scathophaga stercoraria, in UK 1927	distribution of 2313
2910, 3278	Psychodinae, in Kenya 1551	hosts of 2313
in fallow fields, mapping of 3278	Psychodopygus amazonensis (see Lutzomyia	Pulex sinoculus, on Orthogeomys grandis
in rice-field levees, egg horizons of 375	amazonensis)	2313
in rice-fields	Psychodopygus davisi (see Lutzomyia	pulicaris, Culicoides
in Arkansas 376, 1193	davisi)	Pulmonary edema, in man, caused by
	Psychodopygus intermedius (see Lutzomyia	
mapping of 3278		scorpion stings 2256
in salt marshes, in South Carolina 2910	intermedia)	pumilio, Carcinops
	Psychodopygus llanosmartinsi (see	pumilio, Rhipicephalus
surveillance for 3278		
Psorophora cyanescens, in USA 385	Lutzomyia llanosmartinsi)	pumilis, Culicoides
Psorophora ferox	Psychodopygus paraensis (see Lutzomyia	punctata, Diploptera
	paraensis)	
in USA 1208	Psychomotor agitation, in Asian buffalo,	punctata, Haemaphysalis
on man, in Connecticut 1208		punctata, Natarsia
	caused by Haematopinus tuberculatus	
sugar-feeding in 1208	2250	punctata, Pherbellia
Psoroptes	Pteracarus minutus daubentoni	punctatum, Anobium
control of		punctatus, Culicoides
	in Netherlands 734	
acaricide applicators for 740	on Myotis dasycneme, in Netherlands	puncticollis, Scarabaeus
acaricides for 728, 2837, 3349	734	punctipennis, Anopheles
gnathosoma in, functional morphology of	4,7(1H,8H)-Pteridinedione, 2-amino-, in	punctodes, Aedes
929	Lucilia cuprina head, developmental	punctor, Aedes
on goat, in Fiji 1658	changes in 192	Punctoribates hexagonus
on rabbit 740	4(1H)-Pteridinone, 2-amino-, in Lucilia	Anoplocephalata in, in USSR 1081
on zebu, in Malaysia 2538	cuprina head, developmental changes in	in USSR 1081
Psoroptes communis ovis (see P. ovis)	192	Punctoribates punctum
Psoroptes cuniculi	4(1H)-Pteridinone, 2-amino-7,8-dihydro-6-(2-	Anoplocephalata in, in USSR 1081
amino acids in 2486	hydroxy-1-oxopropyl)-, (S)-, in Lucilia	in USSR 1081
control of	cuprina head, developmental changes in	punctulatus, Anopheles
acaricides for 504, 998, 2248, 2487,	192	punctum, Punctoribates
2488, 2687	Pterin (see 4(1H)-Pteridinone, 2-amino-)	pungens, Tabanus
growth regulators for 2767	Pterodectes, on Passeriformes, in New	Punta Salinas virus, in, Ornithodoros
in Australia 3091, 3105	Zealand 801	amblus, in Peru 275
in Indonesia 2806	Pterodex carolliae	1H-Purin-6-amine, in Musca domestica,
in Mexico 2774	gen. et sp. nov., description of 1001	effects on pupariation of 188
in Upper Volta 2687	in Suriname 1001	1H-Purine-2,6-dione, 3,7-dihydro-, in Musca
on goat, in New South Wales 3105	on Carollia perspicillata, effects of 1001	domestica, effects on pupariation of 188
on horse, in Queensland 3091	Pteromalidae, parasitising, Tabanidae, in	1H-Purine-2,6-dione, 3,7-dihydro-1,3-
on rabbit	France 659	dimethyl-, in Musca domestica, effects on
in Indonesia 2806	Pteromychirus, gen. nov., description of	pupariation of 188
in Mexico 2774	2770	1H-Purine-2,6-dione, 3,7-dihydro-3,7-
in Upper Volta 2687	Pteromychirus lukoschusi, taxonomy of,	dimethyl-, in Musca domestica, effects on
Psoroptes equi cuniculi (see P. cuniculi)	transferred from Tamiopsochirus 2770	pupariation of 188
Psoroptes hippotis (see P. cuniculi)	pteronyssinus, Dermatophagoides	1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-
Psoroptes ovis	Pteronyssoides, on Passeriformes, in New	trimethyl-, in Periplaneta americana,
amino acids in 2486	Zealand 801	potentiating activation of phosphorylase
control of 2524	Pthirus pubis	by cyclic AMP 336
acaricides for 285, 503, 504, 757, 998,	biology of 34, 1174	1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-
2487, 2488, 2837, 3101	control of 1142, 1147, 1174	in Aedes aegypti excreta 2076
legislation for 285	insecticides for 34, 348, 1176	determination of 1564
in Indonesia 2806	descriptions of 34	in Musca domestica, effects on
in Iran 503	epidemiology of 1174	pupariation of 188
in Lesotho 285	in Switzerland 1174	purpureus, Rhinoestrus
in UK 3101	in Thailand 2814	purus, Culicoides
in USA 2524, 3427	in UK 1142, 1147	pusilla, Schoenbaueria (see Simulium
on Asian buffalo, in Indonesia 2806	in USA 348, 1176	pusillum)
on cattle, effects of grooming on 3427	on man	pusillum, Simulium (Schoenbaueria)
on sheep	effects of 34	putoria, Chrysomya (see C. chloropyga)
in Iran 503	in England 1147	putoria, Chrysomya chloropyga (see C.
in Lesotho 285	in Pennsylvania 1176	chloropyga)_
in UK 3101	in Switzerland 1174	putrescentiae, Tyrophagus
in Wyoming 2524	in UK 1142	PVC (see Ethene, chloro-, homopolymer)
outbreaks of 285	on eyelashes 2814	pycnostictus, Culicoides
seasonal abundance of 3427	on head 348	Pyemotes tritici
Psychoda alternata	taxonomy of, characters distinguishing	on man, dermatitis caused by 769
	Pediculus and 34	parasitising
competing with, Metriocnemus		
hygropetricus 2719	Ptinidae, preyed on by, Loxosceles reclusa,	Solenopsis invicta
in Italy 896	in Iowa 3430	and biological control using
in USA 1814		
	Ptychopteridae, Culicinomyces clavosporus	in Florida 3384
in animal waste lagoons, effects of organic	in, defence mechanisms against 1829	in Georgia (USA) 3384
pollution on 1814	Ptyonoprogne rupestris, Ceratophyllus	Pyemotes ventricosus
rearing of, techniques for 2719	nanshanensis on, in China 819	biology of 1657
vertical distribution of 896	pubis, Pthirus	in Singapore 1657
Psychoda grisescens	Puddles, Culicidae in, in Missouri 3211	on man, dermatitis caused by 1657
in Italy 896		
	Puerto Rico	parasitising, Anobium punctatum, in
vertical distribution of 896	Aedes aegypti in 2136	Singapore 1657
Psychoda phalaenoides	in cemeteries 3247	Pyemotes zwoelferi
in Italy 896	Latrodectus geometricus in 3429	biology of 1967
vertical distribution of 896		descriptions of 1967
	L. mactans in, natural enemies of 3429	
Psychoda severini		in Yugoslavia 1967
Psychoda severini	L. variolus in 3429	in Yugoslavia 1967
in Italy 896	L. variolus in 3429 pugilator, Uca	in dried flowers, imported into France
	L. variolus in 3429	
in Italy 896 rearing of, techniques for 2719	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus	in dried flowers, imported into France 1967
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of,
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence mechanisms against 1829	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes Pulex irritans	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of, transferred to Farhangia 2306
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence mechanisms against 1829 in Colombia 2661	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes Pulex irritans distribution of 2313	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of, transferred to Farhangia 2306 Pygiopsyllidae, taxonomy of 2306
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence mechanisms against 1829	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes Pulex irritans	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of, transferred to Farhangia 2306 Pygiopsyllidae, taxonomy of 2306
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence mechanisms against 1829 in Colombia 2661 in Italy 896	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes Pulex irritans distribution of 2313 hosts of 2313	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of, transferred to Farhangia 2306 Pygiopsyllidae, taxonomy of 2306 pygmaeus, Cercyon
in Italy 896 rearing of, techniques for 2719 vertical distribution of 896 Psychodidae Culicinomyces clavosporus in, defence mechanisms against 1829 in Colombia 2661	L. variolus in 3429 pugilator, Uca pulchellus, Atylotus pulchellus, Rhipicephalus pulcherrimus, Anopheles pulchritarsis, Aedes Pulex irritans distribution of 2313	in dried flowers, imported into France 1967 on man, dermatitis caused by 1967 Pygiopsylla, taxonomy of 2306 Pygiopsylla celebensis, taxonomy of, transferred to Farhangia 2306 Pygiopsyllidae, taxonomy of 2306

Pyricularia, in, rice, in Crimea 87

Pygmephorus Pyridinium, 1-hexadecyl-Quinine (see Cinchonan-9-ol, 6'-methoxy-, $(8\alpha, 9R)$ -) in mammal nests, in USSR 1053 bromide on Scapanus townsendi, in Oregon 289 quinquefasciatus, Culex against Pygmephorus designatus in USA 509 Anopheles atroparvus 75 quinquestriatus, Buthus (see Leiurus Culex molestus quinquestriatus) on Sorex trowbridgii, in Oregon 509 pyriformis, Gahrliepia quinquestriatus, Leiurus (Buthus) 2H-Pyran-2-one, 5,6-dihydro-3-hydroxy-4-2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-ethylquinquevittatus, Eretmapodites pentyl-, repellent for, Aedes aegypti 5-phenyl- (see Phenobarbital) quinquevittatus, Tabanus Quintiofos (O-ethyl O-8-quinolinyl phenylphosphonothioate) 2(1H)-Pyrimidinone, tetrahydro-5,5 dimethyl-, [3-[4-(trifluoromethyl)phenyl]-3,5-Pyrazolidinedione, 4-butyl-1,2-diphenyl-(see Phenylbutazone)
Pyrellia, in Norway 881 against, Ornithodoros lahorensis 3410 1-[2-[4-(trifluoromethyl)phenyl]ethenyl]in Buphagus erythrorhynchus, toxicity of 2-propenylidene]hydrazone, against, 1643 Pyrellia cadaverina, in Norway (?) 881 Solenopsis invicta 759 in dips, determination of 1010 **Pyrethrins** Pyroglyphidae resistance to, in, Boophilus microplus, in against allergens of, role in house-dust allergens South Africa Blattella germanica 1143, 2541 of 923 quirini, Megabothris quirosi, Odontopsyllus R-69 (see Oxazolidine, 3-acetyl-2-(2,6-dimethyl-5-heptenyl)-) R-20458 (see Oxirane, 3-[5-(4-Culex pipiens 2604 distribution of 921 C. quinquefasciatus in house dust Culicidae 3209 in Denmark 287 Musca domestica 1143, 1378 in pig housing 3350, 3351 in piggeries 467 in different climates 3094 in Japan 727 ethylphenoxy)-3-methyl-3-pentenyl]-2,2-dimethyl-, (E)-) Pyrrolidine, 1-(4-cyclohexyl-1-oxobutyl)-, Ornithodoros tholozani, on guinea-pig repellent for, Aedes aegypti 1813 Rabbit (see also named species) Pyrrolidine, 1-(3-cyclohexyl-1-oxopropyl)-, 1087 Amblyomma hebraeum on, effects of repellent for, Aedes aegypti 1813 Q fever (see also Coxiella burneti) qadrii, Neohaematopinus Panstrongylus megistus 1507 2214 Androctonus amoreuxi venom in, pharmacokinetics of 306 Anopheles annularis on, feeding by 2059 Paratanytarsus, in water supply 2713 Pediculus capitis, on man 1498 Qalyub virus Pthirus pubis, on man 1176 in, Ornithodoros erraticus, in Egypt 1950 Bacillus sphaericus in, not pathogenic 1785 Rhipicephalus appendiculatus R. sanguineus, in dwellings 965 formulations of 1009 controlled release 1087 properties of 1950 taxonomy of 1950 Centruroides noxius venom in, antibodies to 2781 qinghaiensis, Amphipsylla qinghaiensis, Haemaphysalis qionghaiensis, Haematopota Cheyletiella spp. on, in Indonesia 2806 in β-cyclodextrin 1437 C. parasitivorax on in Bombyx mori, toxicity of 1446 alopecia caused by in Japan 288 2774 in Chrysanthemum cinerariaefolium quadrimaculatus, Anopheles quadripertusus, Haematopinus 1434 Cimex spp. on, antibodies to 562 Culex spp. on, antibodies to 562 in Musca domestica, inducing mixed Quail (Coturnix coturnix) function oxidase 909 pine resin in, not affecting development Dermacentor reticulatus on, feeding by in Periplaneta americana, neurotoxicity of 1011 1646 D. variabilis on 3435 spruce resin in, not affecting development insecticidal activity of 1009, 1435 1011 knockdown activity of 1144 Quail, bobwhite (see Colinus virginianus) host macromolecules in hemolymph of Quaranfil virus 3402 laboratory synthesis of 1436 repellent for Dermanyssus spp. on, in Upper Volta 2687 Argas hermanni, in Afghanistan 695 Glossina morsitans, on guinea-pig A. vulgaris, in Iran Dermatobia hominis on 1087 quasiocellata, Nycteribia antibodies to 1588 Panstrongylus megistus, on rat 39 Quebec immune responses to synergists for, piperonyl butoxide as 1143, 1176, 1498 Aedes mercurator in 1818 immunization against 1589 Dermatophagoides pteronyssinus on, antibodies to 1956 Echidnophaga myrmecobii on, in New South Wales 46 Anopheles earlei in, natural enemies of with Azadirachta indica extracts, against, Musca domestica 1447 1197 A. punctipennis in, natural enemies of with fenitrothion, and malathion, against, Alphitobius diaperinus, in fowl A. walkeri in, natural enemies of 1197 Blattaria in 551 ectoparasites of, seasonal incidence of housing 687 2869 with garlic extracts, against, Musca domestica 1447 Chaoboridae in 672 Forcipomyia taiwana on 418 Chrysops fuliginosus in 2197 Culicidae in 1219, 2881, 2958, 3290 Glossina pallidipes on, rearing of 2984 G. palpalis on 2686, 2687 rearing of 1315 with malathion, against, Musca domestica in caribou hoofprints 2063 natural enemies of 2354 Ixodoidea in, on small mammals 720 2063 2191 with permethrin, against, Alphitobius diaperinus, in fowl housing 687 with piperonyl butoxide, antagonistic 1507 Hyalomma anatolicum on, development of 715 Tabanus nigrovittatus in 2197 H. impressum on, immunity to 1939 H. marginatum on, development of 2 Queensland Hybomitra erberi on, in Ukraine H. tsushimaensis on, feeding by **Pyrethroids** Anopheles farauti in 1552 Boophilus microplus in on Bos taurus × B. indicus 961 on cattle 259, 260, 959, 1938, 3072 aziridine analogues of 2264 3022 development of 1378, 1435 fluorinated 1439 Lucilia sericata on, in Missouri 1346 mite control on, acaricides for 728, 2248 myxoma virus in in Australia 2323 in New South Wales 46 in UK 2324 formulations of, in β-cyclodextrin 1437 Calcarmyobia australasiae in, on Miniopterus 301 in foodstuffs, residues of 3128 cattle in, tick control on 258, 259, 260 Culicidae in, in coral cays 106 Culicoides spp. in 2143 C. brevitarsis in in Periplaneta americana neurotoxicity of 3435 symptoms caused by 3435 insecticidal activity of 1438 role of secondary alcohol moieties in Nocardia farcinica in, tick transmission of 502 natural enemies of 2659 viruses in 862, 866, 1253, 3303 C. molestus in 3302 Notoedres caniculi on, in Indonesia 2806 1441 Ornithodoros moubata on, immune insecticidal activity of stereoisomers of response to 2220 pest control on, acaricide applicators for 740 Demodex canis in, on dog 2766 Knemidokoptes pilae in, on budgerigar 1440 laboratory synthesis of 1434, 1436, 1438 metabolism of, review 1445 neuropathic effects of 3128 on cattle, duration of effectiveness of 1663 Phlebotomus duboscqi on, in Senegal Lucilia cuprina in 194 Psoroptes cuniculi in, on horse 2147 Psoroptes cuniculi on 3091 in Indonesia 2806 in Mexico 2774 in Upper Volta 2687 rearing of 2686, 2687 Raillietia auris in, on cattle 3102 sheep in, fly control on 163 2446 specifications for 526 vinylogous relationship in Stomoxys calcitrans in, natural enemies of with acyclic carboxylic acids 2508 1363 Rhipicephalus appendiculatus on feeding by 1115 immunity to 1939 with heterocyclic alcohols 2502 veterinary entomology in 16, 2836 with oxime linkage 1446 queenslandicus, Siteroptes querceti, Dendrophaonia
Quercus ilex, Ceratopogonidae in holes in,
in Spain 129 without cyclopropane ring Simulium spp. on, feeding by 2981 Siphonaptera on without ester linkage 1444

Pyrethrum (see Pyrethrins)

Quinacrine (see Mepacrine)

in France 2335

Rattus bowersii Raillietia australis Rabbit contd. Leptotrombidium nanlingense on, in descriptions of 3102 Siphonaptera on contd. in Portugal 2336 in Australia 3102 Guangdong 2247 Spilopsyllus cuniculi on on Vombatus ursinus, in Australia 3102 in Australia 2323 Raillietia manfredi Rattus coxingi in UK 2324 sp. nov., description of 3102 in Australia 3102, 3105 Tabanidae on, in Connecticut 1921, 2443 2864 on goat, in New South Wales 3102, 3105 tick control on, immunization for 3390 Raillietina cesticillus, in, Carabidae 489 Rattus exulans Trypanosoma congolense in, tsetse transmission of 1870
Rabbit, cottontail (see Sylvilagus floridanus)
Rabon (see Tetrachlorvinphos)
Raccoon (see Procyon lotor) Railway embankments Euproctis chrysorrhoea in, in England Jaya 1961 3377 pest control in, ULV sprayers for 3377 Radfordia acinaciseta Rainfall descriptions of 2483 in Malaysia 2483 on *Rattus rajah*, in Malaysia 2483 effects of, on 1961 Anopheles gambiae 1836 A. merus 1836 Radfordia chiropodomys in Malaysia 2483 dengue hemorrhagic fever 2130 Rattus flavipectus Musca vetustissima 1353 on Chiropodomys gliroides, in Malaysia 2483 Raisins and sultanas, bait component for, Blattella germanica 2541 Radfordia ensifera in Malaysia 2483 on Rattus rattus, in Malaysia 2483 Rangifer caribou, Culicidae in hoofprints of, Rattus fulvescens in Quebec 2063 on Rattus tiomanicus, in Malaysia 2483 Rangifer tarandus (see Reindeer) Radfordia ensifera jalorensis Ranunculus fluitans, Simulium spp ssp. nov., description of 2483 associated with, in France 426 2483 in Malaysia 2483 raptor, Muscidifurax on Rattus tiomanicus, in Malaysia 2483 rara. Haematopota Radfordia hornerae
in Malaysia 2483
on Rattus sabanus, in Malaysia 2483
Radfordia pahangensis raridens, Macrobrachium Rash (see Exanthema) raskemensis, Dermacentor RAST (see Radioimmunoassay) sp. nov., description of 2483 in Malaysia 2483 Rat (see also named species) apamin in, effects on central nervous on Rattus fulvescens, in Malaysia 2483 on, in China system of 2458 on Rattus inas, in Malaysia 2483 Rattus niobe Apis mellifera venom in, cardiovascular Radfordia perakensis effects of 1929 Guinea 3426 in Malaysia 2483 arthropod parasites of, in Poland 50 on Rattus rajah, in Malaysia 2483 Radfordia selangorensis
sp. nov., description of 2483
in Malaysia 2483
on Rattus whiteheadi, in Malaysia 2483 Bacillus sphaericus in, not pathogenic 3426 1785 bioresmethrin in, toxicity of 1452 Centruroides sculpturatus venom in, carboxypeptidase inhibition by 1005 Radfordia subangensis 1968 sp. nov., description of 2483 in Malaysia 2483 on Rattus rajah, in Malaysia 2483 cismethrin in, toxicity of 1452 Dermacentor variabilis on 3426 host macromolecules in hemolymph of Radiation, use in entomology of 2825 3402 Radiation, gamma against, Pseudomonas aeruginosa 1093 resistance to 1407 Rattus niviventer Forcipomyia taiwana on 418 effects of, on Hymenolepis diminuta in, infectivity of 2864 Acdes caspius 2634, 2635, 2636 Argas arboreus 1397 Calliphora vicina 219 Culex tarsalis 2101 Damalinia ovis 30 1390 insecticides in, acetylcholinesterase inhibition by 748 Latrodectus antheratus venom in, 2245 levarterenol release caused by Glossina spp. 1100 G. palpalis 873, 1323 Leiurus quinquestriatus telson extract in, effects on gut of 2497 Siphonaptera on Leptotrombidium deliense 298 malathion in, toxicity of, effects of drugs in Java 817 Leptotromotalum deliense 290
Lucilia cuprina 888
Musca domestica 218, 478, 903, 2720
Rhipicephalus appendiculatus 3075
Stomoxys calcitrans 1090, 3370
S. nigra 444
Radiation, infrared, Triatoma infestans
responses to 1123 in Yunnan 568 on 750 on 750

Mesobuthus eupeus venom in, effects on blood circulation of 307
organophosphates in, toxicity of 1681 phenothiazine in, toxicity of 1012

Polyplax spinulosa on, effects of riboflavin on susceptibility to 1179
pyrethroids in, toxicity of 1144, 1985
Schoengastia vieta on, in Malaysia 513

Tituus serrulatus venom in. 361 China 3098 Radiation, microwave, effects of, on, Ornithonyssus sylviarum 2765 Radiation, ultraviolet Tityus serrulatus venom in effects of, on, Bacillus thuringiensis 1249, 1250 acetylcholine release from brain caused by 1677
stimulating salivary glands 2780
Xenopsylla cheopis on, fecundity of
Rat, Norway (see Rattus norvegicus) Triatoma infestans responses to 1123 Radioallergosorbent test (see Radioimmunoassay) 2483 1061 Rattus rattus Radioimmunoassay Ratemia asiatica for diagnosing hypersensitivity to Apis mellifera venom 1933 for diagnosing hypersensitivity to sp. nov., description of 2855 in China 2855 on horse, in Xinjiang-Uighur 2855 Cladotanytarsus lewisi 1596 Rattimyobia, taxonomy of 2483 for diagnosing hypersensitivity to house-dust mites 989, 990, 992, 1419, 1654, Leptotrombidium umbricola on, in West Malaysia 1974 Rickettsia mooseri in 2321 3420 for diagnosing hypersensitivity to Hymenoptera stings 1389, 3383 Raillietia, key 3102 Rattus andersoni, Hystrichopsylla rotundisinuata on, in Yunnan 2580 Raillietia auris Rattus argentiventer descriptions of 3102 in Australia 3102 in Mexico 1128 Leptotrombidium arenicola on, in Indonesia 2810 L. deliense on, in Indonesia 1963 on cattle Rattus bagobus Rhodnius pallescens on, in Panama in Mexico 1128 Walchiella impar on, in Philippines Rickettsia tsutsugamushi in, in Irian Jaya in Queensland 3102 W. oudemansi on, in Philippines 3428 1961

L. trapezoidum on, in China 2245 Genoneopsylla bisinuata on, in China Muritrombicula dali on, in China 2246 Hoplopleuridae on, in Burma 1496 Leptotrombidium deliense on, in Irian L. fletcheri on, in Irian Jaya 196 Mesostigmata on, in Burma 1962 Rickettsia tsutsugamushi in, in Irian Jaya Siphonaptera on, in Java 817 Trombiculidae on, in Burma 2479 Ascoschoengastia yunnanensis on, in Yunnan 293 Walchia jiangxiensis on, in China 3100 Herpetacarus spinosetosus on, in Fujian 2231 Radfordia pahangensis on, in Malaysia Walchia jiangxiensis on, in China 3100 Rattus inas, Radfordia pahangensis on, in Malaysia 2483 Rattus insignis, Leptotrombidium subobscurum on, in Philippines 2490
Rattus leucopus, Leptotrombidium fletcheri on, in Irian Jaya 1961
Rattus losea, Leptotrombidium dongluoensis 2245 Guntheria buelowi on, in Papua New G. sabinae on, in Papua New Guinea G. serrata on, in Papua New Guinea G. wauensis on, in Papua New Guinea Odontacarus mitchelli on, in Papua New Rattus nitidus, Herpetacarus spinosetosus on, in Fujian 2231 Genoneopsylla bisinuata on, in China Herpetacarus spinosetosus on, in Fujian 2231 Leptotrombidium discum on, in China nudisensillum on, in China postfoliatum on, in China 2245 Rattus norvegicus Chaetopsylla wenxianensis on, in China Hoplopleuridae on, in Burma 1496 Leptotrombidium bengbuensis on, in Mesostigmata on, in Burma 1962 Siphonaptera on, in Wisconsin 230 Trombiculidae on, in Burma 2479 Trypanosoma cruzi in, in Mexico 352 Walchia jiangxiensis on, in China 3100 Rattus rajah, Radfordia spp. on, in Malaysia Gahrliepia meridionalis on, in Yunnan 1667 Herpetacarus tengchongensis on, in Yunnan 1667 Hoplopleuridae on, in Burma 1496 Leptotrombidium arenicola on, in Indonesia 2810 deliense on, in Irian Jaya 1961 fletcheri on, in Irian Jaya 1961 Listrophoroides decoratus on, in Pakistan 2772 Mesostigmata on, in Burma 1962 Nosopsyllus fasciatus on, in Argentina Radfordia ensifera on, in Malaysia 2483

2576

Rattus rattus contd.	Reduvius personatus	Reticulitermes santonensis, antennae in,
Schoengastia spp. on, in Thailand 513	biology of 803	sensilla on 548
Siphonaptera on	on man, in central Europe 803	Retinal pigments
in Java 817, 2819	Redwing (see Turdus iliacus)	in insect eyes, isolating of 2448
in Tanzania 2030	Reedbuck (see Redunca arundinum)	in Lucilia cuprina, effects of eye colour
Stivalius cognatus on, in Java 3188	reflexus, Argas	mutations on 2195
Trombiculidae on, in Burma 2479	regina, Phormia	Réunion
Xenopsylla cheopis on	Regular mosquito iridescent virus, in, Aedes	Amblyomma variegatum in 958
in Java 3188	taeniorhynchus, site of entry of 1819	heartwater in 958
in Morocco 3183	regularis, Tabanus	Reviews
Rattus ruber	reidi, Haemogamasus	arboviruses associated with sea birds
Guntheria pectinata on, in Papua New	Reindeer	1947
Guinea 3426	Cephenemyia trompe on, in Finland	arthropod compound eyes 778
Leptotrombidium deliense on, in Irian	3008	Babesia in man 940
Jaya 1961	Oedemagena tarandi on, in Finland	Bacillus thuringiensis production and
Rattus sabanus, Radfordia hornerae on, in	3007, 3008	utilisation 1535
Malaysia 2483 Rattus tiomanicus	Oestroidea on, book 2691	B. thuringiensis protein crystal structure
mite control on, systemic acaricides for	pest control on, insecticides for 3008	and functions 1536
1412	reinigiana, Hybomitra montana	bioassay of pesticides 1455
Radfordia ensifera on, in Malaysia 2483	reinwardtii, Tabanus	biological control of Glossina 437
Siphonaptera on, in Java 817	Reithrodontomys megalotis, Ixodes pacificus	Blattaria in East Germany 335
Trombiculidae on, in West Malaysia	on, paralysis caused by 1650	Chagas' disease 3138
725, 1412	Relapsing fever, tick transmission of 3137	delayed neurotoxicity of organophosphates
Rattus whiteheadi, Radfordia selangorensis	Reldan (see Chlorpyrifos-methyl)	3135
on, in Malaysia 2483	relictus, Chrysops	dengue hemorrhagic fever 390
Rearing techniques	Reoviridae	environmental impact of Glossina control
Aedes aegypti 2608	in	1334
Amblyomma americanum 2467	Aedes cantator, in Connecticut 2893	feedstuffs from animal wastes 2710
Anopheles albimanus 80, 1815, 2125,	Culex pipiens, in Ukraine 1025	hosts as affected by parasites 1724
3232, 3236	invertebrates, review 525	human arbovirus diseases in Central and
A. annularis 2059	Musca domestica, RNA in 1925	West Africa 1826
A. pseudopunctipennis 843, 3237	Simuliidae, in Guatemala 144	human arbovirus diseases in tropics 1945
A. subpictus 2621	Repellents	immunity to ticks in cattle 952
Bacillus alvei 2641	bioassay of, review 1455	insect diapause 1191
B. brevis 2641	for Culicidae 3284	insect growth regulators for pest control
Beauveria tenella 2641	for Simuliidae, evaluating of 1856	2838
Cnephia dacotensis 431	insect control using 1983	insect juvenile hormone regulation 3134
Cochliomyia hominivorax 1463, 1918	substances tested as:	insect pheromones 1716
Comperia merceti 1737	aquatic-plant extracts 2355	insect photoperiodism 2278
Culex tritaeniorhynchus 3255	citral 3124	insect tracheoles 2835
Culicoides variipennis 628, 3301	cyclic analogues of lactic acid 1525	insecticide resistance and its management
Forcipomyia taiwana 418	cyclohexanealkanoic carboxamides 1813	1683
Glossina spp. 148, 2406 G. austeni 871	Lemna minor extracts 2618	invertebrate salivary-gland physiology 2477
G. morsitans 871, 1093, 1099, 1320	Reports (1978–79), Waite Agricultural	juvenile hormones and their effects on
G. pallidipes 1102, 1316, 2984, 3000	Research Institute, South Australia	insects 3150
G. palpalis 645, 1088, 1104, 1105, 1314,	3037	light polarisation analysis in insects 2830
1315, 1320, 2686, 2687, 2985	reptans, Simulium	malaria 3194
Hybomitra lasiophthalma 2431	Reptilia	metabolism of pyrethroids 1445
Leptopsylla segnis 2333	Diptera on, in Ukraine 1024	microbial agents as insecticides 1680
Lucilia cuprina 1897	Ixodoidea on, in Morocco 3403	mosquito cell lines 1468
Metarhizium anisopliae 2641	Ornithodoros spp. on, in Georgia (USSR)	nematodes for biological control of insects
Metriocnemus hygropetricus 2719	3408	2610
Musca autumnalis 454	Phlebotominae on, in Panama 2150	non-target effects of pesticides 1987
Onchocerca gutturosa 2381	Phlebotomus duboscqi on, in Senegal	pathogens of Culicidae 1783
Ornithocoris toledoi 1747	2147	pesticide application equipment and
Phlebotomus argentipes 2968	Reservoirs (see Lakes, reservoir)	techniques 2271
P. ariasi 633	Reslin (see Allethrin, $[1R-[1\alpha(S^*),3\beta]]$ -,	pesticide usage, prodigal or precise 760
P. papatasi 2968	with bioresmethrin)	precipitin tests in predator-prey studies
P. perniciosus 633	Resmethrin ([5-(phenylmethyl)-3-	Protogon for insect control 1530
Psychoda alternata 2719	furanyl]methyl 2,2-dimethyl-3-(2-methyl-	Protozoa for insect control 1539
P. severini 2719 Romanomermis culicivorax 3206	1-propenyl)cyclopropanecarboxylate) against	Protozoa in insects 3136
R. nielseni 1817	Culex pipiens 2604	relations between mammals and arthropod parasites 327
Simulium spp. 431, 2981	Culicidae 2111, 3209	role of carbon dioxide in mosquito host-
S. decorum 2395	Musca domestica, in poultry housing	seeking 1792
Solenopsis invicta 482, 2725	1601	sex ratio in ectoparasitic insects 2281
S. richteri 2725	Phlebotominae 2536	spread of insect-transmitted virus diseases
Stomoxys nigra 444	(1R-cis)- (see Cismethrin)	of animals 328
Trypanosoma 1470	(1R-trans)- (see Bioresmethrin)	taxonomic characters for Culicidae 210
T. brucei 149, 875	Respiratory hypersensitivity	tick-borne diseases in modern society
T. congolense 2162, 2381	to Dermatophagoides, in man 923, 2489	3137
arthropod allergies and 2828	to Dermatophagoides farinae	tick-borne encephalitis in Europe 1946
reclinata, Polyplax	in man 723, 989, 990, 991, 1426, 3110	tick cell cultures 1469
reclusa, Loxosceles	seasonal variation in 2227	tick salivary gland functions 953
recondita, Uranotaenia	to Dermatophagoides pteronyssinus	Toxorhynchites biology 3139
reconditus, Culicoides	in man 520, 724, 739, 769, 989, 990,	trehalose in insects 330
rectangulatus, Ceratophyllus (see	992, 1419, 1426, 1654, 1958, 1975,	triphenyltin pesticides 3125
Megabothris rectangulatus)	2492, 3109, 3110, 3111, 3112 treatment of 2763	viral hemorrhagic fevers in Africa 2956 viruses of invertebrates 525
rectangulatus, Megabothris (Ceratophyllus) redikorzevi, Ixodes		
Reductase, guanylate, in Anopheles	to Euroglyphus maynei, in man 923 to house dust, in man 1955	Rhabditidae, in, insects, book 1134 Rhabdopedilon longicornis
albimanus 1213	to Sitophilus granarius, in man 991	in New Zealand 1172
Reductase, pyrroline-5-carboxylate, in	Restaurants	on Cervus elaphus, in New Zealand
Aldrichina grahami larvae, localisation of	Periplaneta americana in, in Philippines	1172
685	1727	Rhabdoviridae, in, invertebrates, review
Redunca arundinum, Ixodes donarthuri on,	pest control in 1145	525
in Mozambique 1404	Restlessness (see Psychomotor agitation)	Rhadinopsylla integella
Reduviidae	restuans, Culex	in USSR 3184
in dwellings, in Brazil 2299	reticulatus, Dermacentor	on small mammals, in Siberia 3184
pathogens of, bibliography 2517	Reticulitermes lucifugus santonensis (see R.	Rhadinopsylla integella casta (see R.
tibial pads in 3168	santonensis)	integella)

Rhadinopsylla integella integella, in Hungary 2027 Theileria spp. in contd. Rhadinopsylla li ventricosa in USSR 1688 T. parva in Yersinia pestis in, in Kirgizia 1688 culturing of 1940 detecting of 3089 Rhadinopsylla rothschildi in USSR 1026 on Microtus brandti, in Transbaikalia 1026 3075 Rhagionidae in Nearctic region, book 2587
pupae of 1348
rheinwaldi, Leptotrombidium
rheophilum, Simulium (see S. argyreatum)
Rhinitis, allergic, perennial in man caused by Dermatophagoides pteronyssinus 724, 2763 caused by Sarcophaga carnaria 769 role of house-dust mites in 1958 role of insects in 2132 Rhinoceros dung, Onitis assamensis in, in Assam 2724 Rhinoestrus, in Tadzhikistan 154 Rhinoestrus purpureus biology of 442 in USSR 442, 654 Rhipicephalus evertsi on horse, in Buryatia on man, in USSR 654 rhinolophia, Calcarmyobia rhinolophinus, Paraperiglischrus Rhinolophus affinis 704 Rhipicephalus evertsi evertsi Whartonia dewitti on in Malaysia 730 in Thailand 730 Rhinolophus cornutus, Paraperiglischrus rhinolophinus on, in Japan 505 Rhinolophus ferrumequinum Rhinolophus ferrumequinum
Acari on, in Uzbekistan 1071
Paraperiglischrus rhinolophinus on, in
Japan 505
P. sternalis on, in Japan 505
Rhinolophus lobatus, Calcarmyobia
rhinolophia on, in Kenya 301
Rhinophylla pumilio, Psorergatoides
guyanensis on 736
Rhinosciurus laticaudatus, Cheyletus
pluridens on, in West Malaysia 2771
Rhinicenhalus 704 Rhipicephalus Bhanja virus in, in Kenya 1641 Congo virus in, transmission of 1945 control of 1480 control of 1480

Coxiella burneti in, in India 2748

Dugbe virus in, in Kenya 1641

in Indonesia 925

in Italy 3064

in Karnataka 2470

Nairobi sheep disease, virus in, in Kenya Rhipicephalus sanguineus 1641 on cattle, in Kenya 1641 on livestock, in Mongolia on sheep, in Kenya 1641 preyed on by, Buphagus erythrorhynchus, in South Africa 1643 Theileria parva in, transmission of 936

Rhipicephalus appendiculatus
acaricide resistance in 699
cell cultures from 1469
cold receptor in 3076
control of acaricides for 699, 757, 2737 grasses for 1722 grasses for 1722 dimethyl sulfoxide in, toxicity of 2225 feeding behaviour in 1722 effects of host nutrition on 1115 host stocking density as affecting 1722 in Kenya 3089 in South Africa 757, 1645, 2468 in Zimbabwe 937 nymphal development in, effects of γ-irradiation on 3075 on cattle immunity to 1939 in Kenya 3089 in South Africa 1645 in Zimbabwe 937 on dog on rabbit, immunity to 1939 preyed on by

Buphagus erythrorhynchus
in South Africa 2468 1643 in Karnataka 2470 in Tasmania 533 Theileria spp. in development of, effects of ecdysis on 276 on domestic animals, in Connecticut

Rhipicephalus appendiculatus contd. Rhipicephalus sanguineus contd. on man, in Connecticut 1398 transmission of 942 on Oryctolagus cuniculus, in Spain 2869 on wildlife, in Oklahoma 2465 artificial infection with 2225 oviposition in effects of nutrition on 2753 effects of temperature on 2753 precocenes in, effects of 1393 infectivity of, effects of y-irradiation on Precocenes in, effects of 1593
Rickettsiaceae in, in India 2748
seasonal abundance of 3063
sex pheromone of, responses to 926
temperature preferences in 2473
water relations of 3414
group of, on livestock, in Egypt 2752 monitoring of 2215
transmission of 698, 1722
T. taurotragi in, development of 709
Rhipicephalus bursa
Babesia ovis in, enzymes in 264, 3077
in Iran 2750
in Spain 3078
in USSR 1636
in Yugoslavia 701
Listeria monocytogenes in Rhipicephalus sanguineus sanguineus in Egypt 3394
on donkey, in Egypt 3399
on sheep, in Egypt 3394
Rhipicephalus simus in Yugosiavia 701

Listeria monocytogenes in multiplication of 262
persistence of 262
on cattle, in Spain 3078
on domestic animals, in Turkmenia 1636
on goat, in Iran 2750
on Ovis orientalis, in Iran 2750 Anaplasma marginale in in males 3082 transmission of 95
Rhipicephalus turanicus 950 Coxiella burneti in, in Kirgizia 1688 habitats of 1072 in Egypt 2756 in Iran 2750 in USSR 1072, 1636, 1688 control of, acaricides for 757 in South Africa 757 in Zimbabwe 1638 on goat, in Egypt 2756 on Ovis orientalis, in Iran 2750 seasonal abundance of 1638 on Ovis orientais, in Iran 2750
Rickettsia sibirica in, in Kirgizia 1688
Rhizopoda 3136
Rhizopus, in, Culicidae, in Ukraine 1025
Rhizopus stolonifer, in, Phlebotomus spp., pathogenicity of 2968
Rhodacarellus, in USSR 1006
Rhodacaridae, in USSR, book 1006 Wad Medani virus in, in West Africa Anaplasma marginale in, transmission of 950 in South Africa 1645 on cattle, in South Africa 1645 on sheep, paralysis caused by 3395 toxic phase of 3395 Rhode Island Aedes sollicitans in, in salt marshes 3228 toxic phase of 3395
Rhipicephalus guilhoni
in Egypt 2756
on goat, in Egypt 2756
Wad Medani virus in, in West Africa Aplodontopus sciuricola in, on Tamias Rhodnius diuretic hormones in, bioassay of 3144 ovulation hormone in, released by ecdysterone 3175 reproduction in 1725 tracheoles in 2835 Rhipicephalus pulchellus
in Somalia 251
Kisemayo virus in, in Somalia 251
on camel, in Somalia 251
Rhipicephalus pumilio
Coxiella burneti in, in Kirgizia 168
in USSR 1688 Rhodnius domesticus, eggs of 2575 Rhodnius ecuadoriensis, eggs of 2575 Rhodnius nasutus, eggs of 2575 Rhodnius neglectus chromosomes in 1500, 1501 eggs of 2575 Rhipicephalus rossicus, Salmonella typhimurium in, persistence of 3084 feeding behaviour in 805 in Brazil 806, 811 in Venezuela 1500 Trypanosoma cruzi in, infectivity of, strain differences in 806 ammonia in, receptors for 976 Babesia bigemina in, transmission of 1943 biology of 965 control of, acaricides for 965, 1459 Coxiella burneti in, in Karnataka 2470 descriptions of 965 Rhodnius neivai chromosomes in 1500, 1501 eggs of 2575 in Venezuela 1500 growth regulators in, effects on embryonic development of 2754 habitats of 3062 Rhodnius pallescens descriptions of 2019 eggs of 2575 humidity preferences in 2473 in Argentina 984 in Australia 533 in Denmark 3400 host preferences in 2576 in Panama 2576 in Australia 533
in Denmark 3400
in French Polynesia 1943
in German Federal Republic 965
in India 2470, 2748
in Italy 3062, 3063
in Jamaica 2463
in Spain 2869
in USA 1398, 2465
in Yugoslavia 701 on Didelphis marsupialis, in Panama 2576 on man, in Panama 2576 Rhodnius paraensis, eggs of 2575 Rhodnius pictipes chromosomes in 1500 eggs of 2575 in Venezuela 1500 in USA 1398, 2465
in Yugoslavia 701
in dwellings
in Argentina 984
in German Federal Republic 965
insect juvenile hormones in, accentuating
effects of precocenes 1393
on cattle, in French Polynesia 1943 Rhodnius prolixus accessory glands in development of 2024 regulation of protein accumulation in 3170 activity in, rhythm of 315 amino acids in, retention during diuresis of 809 imported into New Zealand in Denmark 3400 in French Polynesia 1943 antennae in, sensilla on 1505 antigonadotropins in, source of 2858 blood-feeding of, membranes for 3249 Brindley's glands in, development of, effects of insect growth regulators on 2860 in German Federal Republic in Italy 3063 in Jamaica 2463 cement gland in 814 cholesterol-synthesis inhibitors in, metamorphosis inhibition by 804 chromosomes in 1500

control of, insecticides for 561, 2018,	Ribonucleic acids, ribosomal, in Rhodnius prolixus, thermal stability of 2857	Rickettsia prowazekii
2573, 2777		
	Ribonucleic acids, viral, in Musca domestica	Androlaelaps fahrenholzi, not
digestive enzymes in 810	virus 1925	transmitted 3066
ecdysis in 2856	Rice (Oryza sativa)	Ctenocephalides felis, not transmitted
eggs of 2575	insecticides in, residues of 1709	3066
enzymes in 354, 1509	Rice (cooked grain), naled in, uptake from	Dermacentor variabilis, not transmitted
habitats of 37	air of 2266	3066
in Panama 2020	Rice-field levees, Psorophora columbiae in,	Glaucomys volans, in Massachusetts
in Venezuela 37, 561, 1500	egg horizons of 375	3182
in dwellings, in Venezuela 561	Rice-fields	Haemogamasus reidi, not transmitted
in palm trees	Aedes vexans in, in Hokkaido 603	3066
in Panama 2020	Anopheles spp. in	man, in Massachusetts 3182
in Venezuela 37	in India 2372	Neohaematopinus sciuropteri,
insect growth regulators in, effects on	in Kenya 854	transmission of 3066
follicle extracellular spaces of 1499	A. atroparvus in, in Crimea 87	Orchopeas caedens, transmission of
life-cycle of 37	A. freeborni in, in California 2093	3182
lindane in, knockdown caused by 2777		
	A. messeae in, in Caucasus 56	O. howardii, not transmitted 3066
lipids in, visualising of 2861	A. quadrimaculatus in, in Arkansas 1193	Pediculus spp., transmission of 34
neurosecretory system in 2856, 2858,	A. sinensis in, in Hokkaido 603	P. humanus, replication of 3066
2859	A. subpictus in, in Indonesia 1777	Xenopsylla cheopis, not transmitted
effects of pyrethroids on 1182	Chironomidae in, effects of fertilizers on	3066
nurse cell-oocyte interactions in 2862	1624	Rickettsia rhipicephali, in, Dermacentor
olfactory system in, evolution of 3132	Cricotopus sylvestris in, in Caucasus 56	andersoni, in Montana 3065
ovarian development in 2023	Culex orientalis in, in Hokkaido 603	Rickettsia rickettsi
population dynamics of 40	C. tarsalis in	in
reproduction in, effects of food	effects of crop rotation on 2115	Dermacentor andersoni
deprivation on 353		in Montana 3065
	effects of irrigation water source on	
ribonucleic acids in 2857	2115	transmission of 966
saliva of 1509	in California 2093	D. variabilis
inhibition of blood platelet aggregation	C. tritaeniorhynchus in	in Massachusetts 967
by 3171		in Ohio 234
salivation in 354	effects of agricultural pesticides on	transmission of 966
	1226	
spermathecae in 1183	mortality of 99	Rhipicephalus sanguineus, transmission
Trypanosoma cruzi in		of 965
in Panama 2020	Culicidae in	Sylvilagus floridanus, infectivity of 966
in Venezuela 37	in Andhra Pradesh 3275	S. nuttallii, infectivity of 966
lectins to 2295	in Azerbaijan 852	Rickettsia sibirica
	in Hokkaido 3271	
T. hedricki in, not developing 2863		in _
T. rangeli in	Cyprinodon macularius in, effects on	Dermacentor reticulatus, in Lithuania
detecting of 813	ecosystem of 1543	3399
in Panama 2020	Gambusia affinis in	Hyalomma marginatum, in Kirgizia
in Venezuela 37	effects on ecosystem of 1543	1688
penetration of salivary glands by 1181	trapping of 2096	Ixodidae, transmission of 2747
Rhodnius robustus	irrigation of, role in fly control of 532	Ornithodoros lahorensis, development
chromosomes in 1500, 1501	mosquito control in 3203	of 3070
eggs of 2575	biological 1728, 1827	Rhipicephalus turanicus, in Kirgizia
eggs of 2575 in Venezuela 1500	biological 1728, 1827 insecticide drips for 1709	Rhipicephalus turanicus, in Kirgizia 1688
eggs of 2575	biological 1728, 1827	Rhipicephalus turanicus, in Kirgizia
eggs of 2575 in Venezuela 1500 life history of 2019	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga)	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga)	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia)	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of,	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of,	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon)	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Riciton (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Riciton (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor)	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of,	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti)	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 vectors of 2801
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti)	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 vectors of 2801
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Riciton (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Procehimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Procehimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Pollyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Riciton (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins)
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsyla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands,	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsyla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands,	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Procehimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on synthesis of 3354	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043 small mammals, in Maharashtra 3090	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551 Anopheles coustani, in Kenya 1551
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on synthesis of 3354 in Haematobia irritans ovaries 898	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043 small mammals, in Maharashtra 3090 Xenopsylla cheopis, electron microscopy	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551 Anopheles coustani, in Kenya 1551 Culex pipiens
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Pollyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on synthesis of 3354 in Haematobia irritans ovaries 898 in Musca domestica eggs, effects of γ-	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia montana in Dermacentor sahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043 small mammals, in Maharashtra 3090 Xenopsylla cheopis, electron microscopy of 2320	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551 Anopheles coustani, in Kenya 1551 Culex pipiens in Egypt 2135
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Polyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchephthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on synthesis of 3354 in Haematobia irritans ovaries 898 in Musca domestica eggs, effects of γ- irradiation on 478	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia conori in Ctenocephalides canis, in Karnataka 2343 Ornithodoros lahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 in Ohio 234 dog, in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043 small mammals, in Maharashtra 3090 Xenopsylla cheopis, electron microscopy of 2320 reservoirs of 2321	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551 Anopheles coustani, in Kenya 1551 Culex pipiens in Egypt 2135 transmission of 2135
eggs of 2575 in Venezuela 1500 life history of 2019 Rhododendron, Chironomidae on, in Pennsylvania 3359 rhombifolia, Neostylopyga (Stylopyga) rhombifolia, Stylopyga (see Neostylopyga rhombifolia, Stylopyga (see Neostylopyga rhombifolia) Rhombomys opimus Coptopsylla spp. in burrows of, distribution pattern of 1518 flea control in burrows of, inert dusts for 2578 Leishmania major in, infectivity for Phlebotomus papatasi of 2146 Pollyplax opimi on, in Tadzhikistan 341 Siphonaptera in nests of, in Mongolia 2870 Siphonaptera on, assessing infestations of 571 Xenopsylla spp. in burrows of, distribution pattern of 1518 X. spp. on, in Kazakhstan 1516 Rhopalopsyllus lugubris lugubris in Brazil 1751 on Proechimys, in Brazil 1751 Rhynchelmis, in aquatic habitats, effects of pirimiphos-methyl on 2942 Rhynchophthirina, on vertebrates, in Afrotropical region, book 1177 Rhyzopertha dominica, bacteria in 1633 Riboflavin, in rat, effects on susceptibility to Polyplax spinulosa of 1179 Ribonucleic acids in Aedes aegypti accessory glands, synthesis of 2602 in Calliphora vicina effects of methoprene on synthesis of 3354 effects of moulting hormones on synthesis of 3354 in Haematobia irritans ovaries 898 in Musca domestica eggs, effects of γ-	biological 1728, 1827 insecticide drips for 1709 lecithin monolayers for 854 predatory arthropods in, effects of agricultural pesticides on 1226 Psorophora columbiae in in Arkansas 376, 1193 mapping of 3278 Tabanus spp. in, in Japan 1373 Rice stores, Periplaneta americana in, in Taiwan 3161 richteri, Solenopsis Ricifon (see Trichlorphon) Ricinus on Cricetus cricetus, in Hungary 2012 on Passeriformes, in New Zealand 801 Ricinus communis (see Castor) ricinus, Ixodes Rickettsia akari, in, Ornithodoros lahorensis, development of 3070 Rickettsia burneti (see Coxiella burneti) Rickettsia montana in Dermacentor sahorensis, development of 3070 Rhipicephalus sanguineus, transmission of 965 Rickettsia montana in Dermacentor andersoni, in Montana 3065 D. variabilis in Massachusetts 967 Rickettsia mooseri in Siphonaptera, pathogenicity of 1043 small mammals, in Maharashtra 3090 Xenopsylla cheopis, electron microscopy of 2320	Rhipicephalus turanicus, in Kirgizia 1688 Rickettsia slovaca in Dermacentor marginatus, ultrastructure of 271 Ixodes ricinus, in Lithuania 3399 man, in Czechoslovakia 1647 Rickettsia tsutsugamushi in Leptotrombidium arenicola in Indonesia 2810 transmission of 2812 L. deliense, transmission of 297, 2812 L. fletcheri, transmission of 2812 man, in West Malaysia 2812 Rattus exulans, in Irian Jaya 1961 R. rattus, in Irian Jaya 1961 small mammals, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 Trombiculidae, in Maharashtra 3090 vectors of 2801 habitats of 2811 Rickettsiaceae in Hyalomma anatolicum, in India 2748 insects, defence mechanisms against 544 Rhipicephalus sanguineus, in India 2748 Xenopsylla cheopis, symbiotic 2320 insect control using, review 1680 Rickettsial infections, tick transmission of 924 RiD (see Pyrethrins) riethi, Culicoides Rift Valley fever in Africa, review 2956 virus in Aedes lineatopennis, in Kenya 1551 Anopheles coustani, in Kenya 1551 Culex pipiens in Egypt 2135

	4.	
Rift Valley fever contd.	Rodentia contd.	RU-22950 (see Cyclopropanecarboxylic acid,
		3-(2,2-dibromoethenyl)-2,2-dimethyl-,
virus contd.	Siphonaptera on	
in contd.	in Argentina 321, 357	cyano(3-phenoxyphenyl)methyl ester,
Ornithodoros savignyi, not infective	in Brazil 1751	(1 <i>R-cis</i>)-)
	in Burundi 49	
2139		Rubbish dumps, Musca spp. in, in Assam
vectors of 2006, 2139	in Caucasus 2868	1595
riouxi, Hystrichopsylla talpae	in Java 2819	rubi, Macrothylacia
	in Mongolia 2870	rubinotus, Culex
Riparia riparia		
Ceratophyllus spp. in nests of, in Alaska	in Pyrenees 2340	rubrofasciata, Triatoma
2303	in Scandinavia 2340	rubrovaria, Triatoma
Ixodes lividus in nests of, in Siberia 3083	in Tanzania 2030	rudis, Pollenia
riparius, Ceratophyllus styx	Trombiculidae on	rufibarbis, Formica
riparius, Chironomus	in Indiana 1966	ruficapillus, Onthophagus
Risella 17 oil, in Lucilia sericata, leg	in Indonesia 1963	ruficorne, Simulium
paralysis caused by 1350	in Kiangsu 2760	
		ruficornis, Gymnodia
Rissa tridactyla, Ixodes uriae on, in Norway	in West Malaysia 1973	ruficornis, Parasarcophaga (see Sarcophaga
702	Wuchereria bancrofti in, morphology of	ruficornis)
River deltas, endosulfan in, non-target	605	
effects of 3005	Rodentolepis erinacei, in, Onthophagus	ruficornis, Sarcophaga (Parasarcophaga)
		rufifacies, Chrysomya
River floodplains	furcatus, in Bulgaria 689	rufipes, Hyalomma marginatum
Culicidae in	Rodentopus sciuri	
in Belorussia 841	in Kenya 2239	runatus, Amphalius
in Sakhalin Island 1760	on Erinaceus albiventris, in Kenya 2239	runicus, Drepanocerus
		rupium, Tabanus
Ixodidae in, in Tadzhikistan 1072	rodhaini, Phlebotomus	
Rivers	Romania	Rural development
methoxychlor in	Acarus siro in, on man 980	Glossina as affected by 1874
distribution of 1272, 1277, 1278	Culex molestus in, in basements 75	trypanosomiasis as affected by 1874
effects on fish of 1284	Culicidae in, natural enemies of 1537	rusticus, Aedes
non-target effects of 1279, 1280, 1281,	Haematopota csikii in 17	rutilus, Toxorhynchites
1282	Phlebotomus caucasicus in 1788	Ruttenia loxodontis
monitoring of 1283, 1292	P. major in 1788	in Uganda 2451
residues of 1972 1976 1976		
residues of 1273, 1275, 1276	synanthropic flies in, natural enemies of	in Zaïre 2451
Simuliidae in	453	on Loxodonta africana, in Czech zoo
in Italy 2392	Tyrophagus longior in, on man 980	2451
in Poland 2391	Romanomermis culicivorax	Rwanda
sampling of 3311	against	Araeopsylla faini in, on Tadarida 3181
Simulium arcticum in, sampling of 1291	Anopheles albimanus 377	Ophthalmognathus tenorioae in 2237
temephos in, non-target effects of 1691	Culex quinquefasciatus, in cemetery	sabaeus, Paederus
riversi, Aedes	vases 2916	Sabal, Rhodnius prolixus in, in Venezuela
	Culicidae 2610, 2954	37
Rivoltasia, on Colinus virginianus, in USA		
2001	Culiseta incidens, in cemetery vases	Sabethes belisarioi
Rivoltasia coturnicola 2001	2916	in Brazil 2898
RNA (see Ribonucleic acids)	culture methods for 3206	Saint Louis encephalitis, virus in, in Brazil
	in	2898
RNAase (see Nuclease, ribo-)		
Ro 13-5223 (see Carbamic acid, [2-(4-	Culex molestus, development of 2934	Sabethes chloropterus, in Brazil 2627
phenoxyphenoxy)ethyl]-, ethyl ester)	C. pipiens	sabinae, Guntheria
Road building, Ixodidae as affected by	effects of 1229	Saccharose (see α -D-Glucopyranoside, β -D-
3411	effects on hemolymph proteins of	fructofuranosyl)
Robaxin (see Methocarbamol)	1227	Saccharum officinarum (see Sugar-cane)
robertsi, Argas	infectivity of, effects of culture age on	sacer, Scarabaeus
robertsoni, Hippelates (see Liohippelates	2932	sacharovi, Anopheles
robertsoni)	insect control using, review 1538	saduski, Gahrliepia
robertsoni, Liohippelates (Hippelates)	persistence of 2089	saevissima, Solenopsis
Robin (see Erithacus rubecula)	preyed on by, Acanthocyclops vernalis	saevus, Culicoides
robini, Lutzomyia	3244	SAFETY
robustulus, Macrocheles	temperature as affecting 2089	formulation and safe use of pesticides
	water quality as affecting 3261	527
robustus, Rhodnius		
Rochalimea quintana, in, Pediculus spp.,	WHO data sheet on 117	occupational exposure to pesticides 1684
transmission of 34	Romanomermis iyengari, WHO data sheet	saffranea, Chrysomya
Rock holes, Culicidae in, in Missouri 3211	on 92	Safranine, marker for, Siphonaptera 360
Rocky Mountain spotted fever		sagarensis, Hunterellus
anidamiology of 224	Romanomermis nielseni, rearing of, hosts for	
epidemiology of 234	1817	St. Louis encephalitis (see Encephalitis,
in Ohio 234	Ronnel (see Fenchlorphos)	Saint Louis)
tick transmission of 924	Rose Bengal, in Culex quinquefasciatus,	saishuensis, Morellia
Rodent burrows	light-dependent toxicity of 2367	Salicornia fruticosa, Aedes detritus in holes
Latrodectus spp. in, in Uzbekistan 2778	Ross River virus	in, in France 3297
Phlebotomus duboscqi in, in Senegal	in	salinarius, Culex
2147	Aedes albopictus, persistent infection	Salmo gairdneri, methoxychlor in, toxicity
Rodent nests, Gamasinae in, in	with, polypeptide synthesis during	of 1285
Transbaikalia 1032	establishment of 582	Salmonella
Rodentia		
	Culicidae, in New South Wales 2033	in
Acari on, in Hawaii 922	rossica, Amphipsylla	birds, in Kirghizia 1033
Amphipsylla spp. on, in Himalayas 3186	rossicus, Rhipicephalus	Musca domestica, in Brazil 479
Anoplura on, in USSR 2571	rostrata, Australophyra	Salmonella bareilly, in, Blattaria, in Uttar
arboviruses in, in Spain 2233	rostratum, Simulium (Gnus)	Pradesh 795
arthropod parasites of, in Maritime	rostratus, Gnus (see Simulium rostratum)	Salmonella enteritidis typhimurium (see S.
Territory 3389	Rothschild, N.C., biography 2305	typhimurium)
Atopomelidae on, in Neotropical region	rothschildi, Rhadinopsylla	Salmonella gallinarum
286	Rotifera 3013	in
Dermanyssidae on, in Australasia 508	Keratella 1037	Argas persicus, in Pakistan 247
Eutrombicula batatas on, in USA 982	Rotifers, in ponds, effects of insect growth	poultry, pathogenicity of 247
Gamasidae on, in Indonesia 1963	regulators on 3013	Salmonella newport, in, Formicidae, in Uttar
Hoplopleura spp. on, in Argentina 1475	rotundisinuata, Hystrichopsylla	Pradesh 795
Hystrichopsyllidae on, in Morocco 3183	rotundus, Eubrachylaelaps	Salmonella typhimurium
Ixodidae on, in Siberia 3083	rousetti, Ascoschoengastia	in
Lutzomyia claustrei on, in French Guiana	Rousettus amplexicaudatus,	Blattella germanica, transmission of
139	Ascoschoengastia rousetti on, in	1730
Mesostigmata on, in Czechoslovakia	Philippines 3428	Dermacentor daghestanicus, trans-
2232		
	Royal Farm virus, in, Argas hermanni, in	stadial transmission of 3084
mites on	Royal Farm virus, in, Argas hermanni, in Afghanistan 695	stadial transmission of 3084 D. marginatus, trans-stadial
in Argentina 321	Royal Farm virus, in, Argas hermanni, in Afghanistan 695 RP-32861 (see 1,3,4-Oxadiazol-2(3H)-one, 5-	stadial transmission of 3084 D. marginatus, trans-stadial transmission of 3084
	Royal Farm virus, in, Argas hermanni, in Afghanistan 695	stadial transmission of 3084 D. marginatus, trans-stadial

Запионена туришитиш сопта.	Sarcopnaga argyrostoma conto.	Sarcoptes scaplel conta.
in contd.	ovarian development in, effects of diet on	Malassezia pachydermatis in, in New
Rhipicephalus rossicus, persistence of	476	York State 2240
3084	Sarcophaga bullata	on Asian buffalo
Xenopsylla cheopis, parenteral infection	abscisic acid in, inhibiting vitellogenesis	in Indonesia 2806
with 1515	3360	
		transfer to man of 3417
Salmonella weltevreden, in, Blattaria, in	ectopic legs in, taste responsiveness in	on camel, in Haryana 3093
Uttar Pradesh 795	2449	on Canis latrans, in New York State
salopiensis, Wilhelmia (see Simulium	enzymes in 1761, 3027	2240
lineatum)	eyes in, ectopic 1615	on cattle
Salt marshes	flight in 2423	
		in Scotland 2761
Aedes dorsalis in, in California 1782,	food conversion efficiency in 3038	in Wyoming 2525
2087	mid-gut in, effects of diet on chromatin	transfer to man of 2761
A. sollicitans in	organisation in 158	on deer, in German Democratic Repub
in Georgia (USA) 3279	moulting hormones in, activity pattern of	1721
in Rhode Island 3228	2173	
A. squamiger in, in California 1782	ovaries in, factors affecting number of	on dog
		in Indonesia 2806
A. taeniorhynchus in, in Georgia (USA)	ovarioles in 3361	transfer to man of 1417
3279	parasitised by, Nasonia vitripennis 208,	on Erethizon dorsatum, in New York
Culex tarsalis in, in California 2087	1608	
Culicidae in, in South Carolina 2910	vitellogenins in, effects of moulting	State 2240
Gambusia affinis in, effects of mosquito-	hormones on synthesis of 2701	on goat, in Indonesia 2806
control recirculation ditches on 1782	Sarcophaga carnaria, on man,	on man 3417
mosquito control in 2381, 3207, 3208	hypersensitivity to 769	antibodies to 1421, 2776
Bacillus thuringiensis for 2087	Sarcophaga crassipalpis	diagnosis of 514
drainage for 3279	control of, growth regulators for 464	during neonatal period 268
effects on arthropod fauna of 2114	descriptions of 893	immune system and 512
water management for 3228	diapause in, hormonal regulation of 1611	in England 1147
Tabanus lineola in, in Massachusetts	methoprene in, development inhibition by	in Mexico 291
1906	464	in New Zealand 518
T. nigrovittatus in, in Massachusetts	Sarcophaga froggatti, in human cadavers,	in Sweden 1673
1906	development of 3037	in Turkey 519
saltator, Trichocera	Sarcophaga hirtipes, chromosomes in, map	in UK 1142
Saltatoria, chromosomes in 1995	3020	in Zimbabwe 2006
Sampling technique	Sarcophaga incisilobata	pruritus caused by 1417
Blattella germanica, buildings 2541	in Czechoslovakia 897	transfer from Asian buffalo of 3417
Culex quinquefasciatus 2116	on man, in Czechoslovakia 897	on pig
Culicidae 2875	Sarcophaga nodosa, enzymes in 2995	distribution pattern of 999
mosquito larvae 1811	Sarcophaga peregrina (see Boettcherisca	effects of 985
capture-recapture, book 531	peregrina)	in German Federal Republic 1959
sweep net data analysis 1456	Sarcophaga ruficornis	in Indonesia 2806
San Angelo virus	hind-gut in, effects of insect growth	in Norway 1424, 1425
in	regulators on 1622	in Sweden 1661
Aedes albopictus	mid-gut in	symptoms of 999
infection of ovarioles with 2628	development of 458	on Vulpes fulva, in New York State
transovarial transmission of 844,	effects of insect growth regulators on	2240
2134	674	outbreaks of 518
Culicidae, transovarial transmission of	ovarian development in, effects of diet on	seasonal abundance of 1424
844	664	taxonomy of, characters distinguishing
	ovarioles in, effects of thiourea on	
Sancassania berlesei (see Caloglyphus		Trixacarus caviae and 1978, 1980
berlesei)	glycogen synthesis in 1355	variability in 518
sanctipauli, Simulium	thiourea in, effects on reproduction of	Sarcoptes scabiei bubulus (see S. scabiei)
Sandfly fever	2421	Sarcoptes scabiei canis (see S. scabiei)
bibliography 1254, 1255	visual system in, development of 655	Sarcoptes scabiei caprae (see S. scabiei)
virus, in, Lutzomyia longipalpis, not	Sarcophaga scoparia	Sarcoptes scabiei suis (see S. scabiei)
replicating 635	breeding season of 3364	Sarcoptes suis (see S. scabiei)
sanguinaria, Lutzomyia	in Finland 3364	Sarracenia purpurea
sangunaria, Lutzoniyia		
sanguineum, Simulium	in carrion, in Finland 3364	Wyeomyia smithii in pitchers of
sanguineus, Anocentor	Sarcophaga similis	in Michigan 587
sanguineus, Rhipicephalus	control of, growth regulators for 464	in New York State 839
sanguisuga, Culicoides	methoprene in, development inhibition by	in Newfoundland 98
sanguisuga, Triatoma	464	Saskatchewan
Sanitation, Culex pipiens and 2370	Sarcophagidae	insect pests in 782
	in Azerbaijan 899	Ornithodoros kelleyi in, in bat roosts
Santa Cruz Islands, Aedes albopictus in		
1550	in China 213, 216	954
santonensis, Reticulitermes	in Indonesia 3337	satyrus, Aphodius
saperoi, Anopheles	in Nigeria 2003	Saudi Arabia
sapphirina, Uranotaenia	in Oceania 3337	Anopheles spp. in 623
sapporoensis, Tabanus	in Vietnam 3337	Anoplura in 2527
Saprolegnia	on sheep, in Western Australia 165	Bombyliidae in 2532
in	traps for 2429	Cordylobia anthropophaga in, on man
Chironomus plumosus, in Ontario	Sarcoptes	2537
1902	on domestic animals, in Zambia 1333	Corethrella buettikeri in 2531
Culicidae, in Ukraine 1757	on zebu, in Malaysia 2538	Hippoboscidae in 2533
Saprolegnia monoeca, in, Culicidae, in	Sarcoptes scabiei	leishmaniasis in 2535
USSR 1019	biology of 985	malaria in 623
Sapygidae, in British Isles 691	control of 985, 1142, 1147, 2525	onchocerciasis in 2534
sarcimen, Laelaps	acaricides for 291, 292, 1661, 1673,	Phlebotominae in 2530, 2536
Sarcocystis	1959, 3093	Phlebotomus papatasi in 2535
in, dog dung, in England 220	in Egypt 2776	Scarabaeoidea in 2529
vectors of 220	in German Democratic Republic 1721	Simulium spp. in 2534
Sarcophaga	in German Federal Republic 1959	Trox spp. in 2528
in Thailand 2805	in India 3093	Saumarez Reef virus, in, sea birds, effects
wings in, morphometric characters of	in Indonesia 2806	1947
1352	in Mexico 291	Sausage casings, for blood-feeding of insec
Sarcophaga albiceps, digestive enzymes in	in New Zealand 518	3249
3014	in Norway 1424, 1425	Savanna
Sarcophaga argyrostoma	in Sweden 1661, 1673	Glossina swynnertoni in, in Tanzania
eclosion in, rhythm of 1600		1220
	in Switzerland 999	1328
gut iii, passage of proteins through 200		
gut in, passage of proteins through 200	in Turkey 519	pyrethroids in, non-target effects of 21
mating in 2721	in Turkey 519 in UK 985, 1142, 1147, 2761	pyrethroids in, non-target effects of 21 tsetse control in, aerial sprays for 2401
	in Turkey 519	pyrethroids in, non-target effects of 21

Carlifor	Cahalarihatas lasvisatus	Sahaangastia hisawalaa santd
Scabies	Scheloribates laevigatus	Schoengastia bicoxalae contd.
epidemiology of 518, 519	Anoplocephalata in, in Azerbaijan 1051	in Papua New Guinea 3426
in New Zealand 518	in USSR 1051	on Isoodon macrourus, in Papua New
in Turkey 519	in pastures, in Azerbaijan 1051	Guinea 3426
scalaris, Fannia	Scheloribates latipes	on Thylogale brunii, in Papua New
		Guinea 3426
scalaris, Megaselia		
Scandinavia	in USSR 1051	on Wallabia agilis, in Papua New Guinea
Siphonaptera in, on small mammals	in pastures, in Azerbaijan 1051	3426
2340	Schilbe mystus, prey of, effects of	Schoengastia diannae, descriptions of 513
small mammals in, ectoparasites of 2338	endosulfan on 3005	Schoengastia huxsolli
tick-borne encephalitis in 1946	Schistocerca americana gregaria (see S.	sp. nov., description of 513
	gregaria)	in Thailand 513
scanloni, Cosarcoptes	Schistocerca gregaria	on Rattus rattus, in Thailand 513
scanloni, Culex	chlordimeform in, mimicking octopamine	Schoengastia invisitata
Scapanus orarius		
mites on, in Oregon 289	1431	in USSR 1071
prey of 289	dieldrin in, metabolism of 2010	on bat, in Uzbekistan 1071
Scapanus townsendi	serum in, hemagglutinins in 2561	Schoengastia kanhaensis
	Schistosomiasis, in Philippines 2804	in Thailand 513
mites on, in Oregon 289	schiva, Tabanus	on Rattus rattus, in Thailand 513
prey of 289	Schizomycetes 29, 544, 1055, 1577, 1627,	Schoengastia philipi, descriptions of 513
scapularis, Aedes	1680, 1783, 1902, 2258, 2517, 2544,	Schoengastia propria
scapularis, Ixodes	2545, 2839, 3040, 3118, 3194	in Thailand 513
Scarabaeidae	Aerobacter 479	on Rattus rattus, in Thailand 513
for converting animal wastes into	A. cloacae 247	Schoengastia taylori, descriptions of 513
feedstuffs 2710	Bacillus alvei 2641	Schoengastia vandersandei, descriptions of
helminths in, in Uzbekistan 316	B. anthracis 247	513
in Corsica 2208	B. brevis 2641	Schoengastia vieta
in Poland 3054	B. cereus 1038	in Malaysia 513
in Saudi Arabia 2529	B. sphaericus 586, 830, 1207, 1216,	on rat, in Malaysia 513
in cattle dung, population ecology of	1522, 1537, 1553, 1572, 1707, 1785,	Schoengastia whartoni, descriptions of 51
1385	1812, 2088, 2350, 2375, 2606, 2622,	Schoengastiella ligula
in dung	2892, 2955, 3260, 3266	in India 3090
	B. subtilis 247	
exploitation of 1392		Rickettsia tsutsugamushi in, in
in France 919	B. thuringiensis 93, 118, 197, 310, 312,	Maharashtra 3090
in German Federal Republic 3055	376, 580, 581, 597, 1038, 1048, 1186,	Schools
in Morocco 3385	1228, 1249, 1250, 1535, 1536, 1537,	Blatta orientalis in, in UK 3157
role in nature of 3054	1553, 1570, 1572, 1707, 1711, 1797,	Dermatophagoides spp. in, in Uttar
traps for 2426	1798, 1827, 1854, 2042, 2084, 2085,	Pradesh 2773
scarabaeoides, Sphaeridium	2086, 2087, 2088, 2286, 2381, 2385,	Schoutedenichia frici
Scarabaeus, in cattle dung, in Bulgaria	2397, 2400, 2501, 2633, 2787, 2884,	sp. nov., description of 1660
1385	2924, 2925, 2954, 2955, 2976, 2977,	on Crocidura, in Africa 1660
Scarabaeus cornifrons (see S. cristatus)	3200, 3250, 3266, 3296, 3297, 3298,	schultzei, Culicoides
Scarabaeus cristatus	3313	schwetzi, Phlebotomus (see Sergentomyia
	Borrelia duttoni 3060	schwetzi)
in Egypt 3374		
Spirocerca lupi in, in Egypt 3374	B. recurrentis 34	schwetzi, Sergentomyia (Phlebotomus)
Scarabaeus puncticollis	B. theileri 3060	Sciomyzidae
in Egypt 3374	Brucella 3413	in France 1349
Spirocerca lupi in, in Egypt 3374	Clostridium botulinum 2186	in Italy 9
Scarabaeus sacer	Corynebacterium pyogenes 890	sciuri, Neohaematopinus
in Egypt 3374	Diphtheroid 3157	sciuri, Rodentopus
Spirocerca lupi in, in Egypt 3374	Enterobacter aerogenes 1727	sciuricola, Aplodontopus
Scathophaga	Escherichia coli 479, 980, 1515, 1633,	sciuricola, Hoplopleura
population age structure in 1926	2047, 3157	Sciuropsis, taxonomy of 284
taxonomy of 1926	Flavobacterium indothelicum 247	Sciuropsis guevarai
		sp. nov., description of 284
Scathophaga scybalaria	Listeria monocytogenes 250, 262, 1033,	
descriptions of 3023	1515	in Spain 284
in Japan 3023	Micromonospora chalceae 922	on Aethechinus algirus, in Spain 284
in dung, in Hokkaido 3023	Moraxella bovis 2200	sciuropteri, Neohaematopinus
Scathophaga stercoraria	Mycobacterium 261	sciurorum, Ceratophyllus
descriptions of 3023	Mycoplasma gallisepticum 1029	Sciurotamias davidianus, Macrostylophora
in Irish Republic 2182	Pasteurella tularensis 237, 496, 1380,	paoshanensis on, in China 818
in Japan 3023	1515, 3215	Sciurus carolinensis
in UK 220, 1927	Proteus 479, 1920, 3157	Anoplura on, in Tennessee 1189
in USA 2454, 2709	Pseudomonas 174, 479	Orchopeas howardii on, in Tennessee
in cattle dung	P. aeruginosa 1093, 1633	1189
in Michigan 2454		Scolioidea, in British Isles 691
in UK 1927	P. pyocyanea 247 Salmonella 479 1033	
	Salmonella 479, 1033	scoparia, Sarcophaga
movement patterns of 3050	S. bareilly 795	Scorpamines, in Androctonus mauretanicus
in dog dung, in England 220	S. gallinarum 247	venom 2253
in dung, in Hokkaido 3023	S. newport 795	Scorpio maurus palmatus, in Israel 1981
in pastures, in Michigan 2709	S. typhimurium 1515, 1730, 3084	Scorpiones
male terminalia in 1354	S. weltevreden 795	chromosomes in 1478
mating in 2709	Serratia 3197	in Argentina 1477
predation by 1927	S. marcescens 247	in Israel 1981
preying on, Hydrotaea irritans, in Irish	Sporosarcina lutea 247	in Mexico 1676
Republic 2182	Staphylococcus albus 1633, 2228, 3157	in Mozambique 1678
sexual competition in 2454	Streptococcus faecalis 1633, 3157	in Virgin Islands 1008
Scathophaga suilla	S. gallinarum 247	on man
descriptions of 3023	Yersinia enterocolitica 880, 1515	cardiovascular effects of stings by
in Japan 3023	Y. pestis 50, 355, 359, 364, 1043, 1130,	2256
in dung, in Hokkaido 3023	1185, 1515, 1688, 1753, 2317, 2319,	in Spain 1427
Scatophagidae, in cattle farms, in Bulgaria	2801	myocarditis caused by 1007
902	Y. rodentium 250, 1515	phylogeny of 1478
Scelionidae, parasitising, Tabanidae, in	Schoelea zonensis, Rhodnius prolixus in, in	venom glands in 1428
France 659	Panama 2020	Scorpionidae, in Arabian Grand Maghreb,
Scenedesmus acutus, Simulium ornatum	Schoenbaueria nigra (see Simulium nigrum)	bibliography 2251
feeding on 1294	Schoenbaueria pusilla (see Simulium	Scotia segetum (see Agrotis segetum)
Scheelea, Rhodnius prolixus in, in	pusillum)	Scrub typhus (see also Rickettsia
Venezuela 37	Schoengastia Schoengastia	
		tsutsugamushi)
Scheloribates Apoplocephaleta in in Azerbaijan 1051	in Asiatic-Pacific region 513	sculleni, Catallagia
Anoplocephalata in, in Azerbaijan 1051	in West Malaysia 2811	sculpturatus, Centruroides
in pastures, in Azerbaijan 1051	Schoengastia bicoxalae	Scutacaridae, in mammal nests, in USSR
Moniezia spp. in, in Cuba 738	sp. nov., description of 3426	1053

scutellare, Leptotrombidium	septentrionalis, Toxorhynchites rutilus	Sergentomyia shorttii
scutellaris, Aedes	serdjukovae, Haemogamasus	control of, insecticides for 1260
Scutovertex, key 994		
	sergenti, Phlebotomus	flagellates in, in Bihar 1266
Scutoverticidae, key 994	sergentii, Anopheles	in India 1260, 1264, 1265, 1266
scybalaria, Scathophaga	Sergentomyia	on man, in Assam 1260
SD-43775 (see Fenvalerate)	in Bihar 1261, 1262	variation in 1264
Sea birds	in Saudi Arabia 2530	Sergentomyia squamipleuris indica (see S.
arboviruses in	taxonomy of, enzymes as characters for	indica)
effects of 1947	2967	
		Sergentomyia zeylanica, in India 1262
review 1947	Sergentomyia affinis	sericata, Lucilia (Phaenicia)
Sea lion, Californian (see Zalophus	in Kenya 2972	sericata, Phaenicia (see Lucilia sericata)
californianus)	Leishmania spp. in, in Kenya 2972	L-Serine
Sea ports, plague prevention in 50		
	on lizard, in Kenya 2972	in Anopheles stephensi, effects of
Sebacil (see Phoxim)	Sergentomyia africana	Plasmodium berghei on 1199
secundus, Ctenophthalmus congener	in Kenya 2972	in Psoroptes cuniculi 2486
securiformis, Arrenurus		in Psoroptes ovis 2486
Seducin, in Nauphoeta cinerea, site of	Leishmania spp. in, in Kenya 2972	
	on lizard, in Kenya 2972	DL-Serine, 2-[(2,3,4-trihydroxyphenyl)methy-
secretion of 3160	Sergentomyia africana magna, in Senegal	l]hydrazide (see Benserazide)
segetum, Agrotis (Scotia)		Serinus canarius (see Canary)
segetum, Scotia (see Agrotis segetum)	2147	Serotonin (see 1H-Indol-5-ol, 3-(2-
segnis, Leptopsylla	Sergentomyia antennata	aminoethyl)-)
	in Kenya 2972	
sejfadinei, Culicoides		serrata, Guntheria
selangorensis, Radfordia	in Sudan 634	serrata, Linguatula
Selenium sulfide	Leishmania spp. in, in Kenya 2972	serrata, Polyplax
against	on lizard, in Kenya 2972	Serratia, in, Anopheles stephensi,
Cheyletiella spp., on cat 983	Sergentomyia arpaklensis (see S. dentata)	pathogenicity of, increased by
Demodex spp., on man 726	Sergentomyia babu	Plasmodium 3197
D. cati, on Uncia uncia 2234	appendages in, abnormalities in 1267	Serratia marcescens
sellnicki, Ceratozetella	flagellates in, in Bihar 1266	in
semblidis, Trichogramma	in India 1265, 1266, 1267	Argas persicus, in Pakistan 247
Semliki Forest virus		
	Sergentomyia baghdadis	poultry, pathogenicity of 247
III	control of, insecticides for 1260	serrulatus, Tityus
Aedes albopictus	in India 1260	Sesamex (5-[1-[2-(2-ethoxyethoxy)ethoxy]et-
cell fusion caused by 114	on man, in Assam 1260	hoxy]-1,3-benzodioxole)
effects of pH on 1567	Sergentomyia bailyi	in Blaberus discoidalis, inhibiting dieldrin
	appendages in, abnormalities in 1267	
pathogenicity of 1569		metabolism 332
persistent infection with 2639	in India 1267	Setaria yehi, in, Anopheles franciscanus, in
polypeptide synthesis during	Sergentomyia barraudi, in India 1265	California 2083
establishment of 582	Sergentomyia bedfordi	Setifer setosus, Haemaphysalis simplicima
replication of 2376, 2639	in Kenya 2972	on, in Malagasy Republic 3060
subviral particles from 113	Leishmania spp. in, in Kenya 2972	setiger, Sperchon
		senger, Sperenon
A. pseudoscutellaris, effects of pH on	on lizard, in Kenya 2972	setosa, Neopsylla
1567	Sergentomyia berentiensis	setosus, Atopophthirus
Senegal	in Malagasy Republic 2389	severini, Psychoda
Aedes luteocephalus in, viruses in 1244	on man, in Malagasy Republic 2389	Sewage, sprinkler irrigation with, effects on
Glossina spp. in 1300, 1301	Sergentomyia christophersi, in India 1262	mosquitoes of 2368
	Sergentomyia clydei	
Haemolaelaps spp. in 3422		Sewage systems
Ixodoidea in, viruses in 704	in India 1262	Culex nigripalpus in, in Florida 373
Phlebotomus duboscqi in, flagellates in	in Senegal 2147	C. quinquefasciatus in, in Florida 373
2147	in Sudan 634	fly control in, insecticides for 2168
trypanosomiasis in 1300, 1301	Sergentomyia dentata	insect growth regulators in, non-target
Tunga penetrans in, on man 566	flight height in 2145	effects of 3024
Sepedon fuscipennis		
	in USSR 1688, 2145	Limnophyes minimus in, in England
in USA 3372, 3373	in cotton fields, in Turkmenia 2145	2168
parasitised by	Leishmania spp. in, in Kirgizia 1688	Metriocnemus hygropetricus in, in
Trichogramma spp., in New York State	Sergentomyia dubia, in Senegal 2147	England 2168, 2719
3373	Sergentomyia dureni	midge control in, insect growth regulators
T. julianoi, in New York State 3372	descriptions of 135	for 1366, 2412
Sepedon sphegea, in France 1349	taxonomy of, characters distinguishing S.	mosquito control in
Sepiapterin (see 4(1H)-Pteridinone, 2-amino-	hamoni and 135	insecticide drips for 1709
7,8-dihydro-6-(2-hydroxy-1-oxopropyl)-,	Sergentomyia hamoni	monolayers for 373
(S)-)	descriptions of 135	Sewage treatment ponds, mosquito control
Sepsidae		in, Poecilia reticulata for 2094
in England 2456	in Congo 136	
	phenology of 136	Sex pheromones
in Japan 2419	taxonomy of	Amblyomma hebraeum 1405
in cattle farms, in Bulgaria 902	characters distinguishing S. dureni and	A. maculatum 926
preyed on by, Scathophaga stercoraria, in	135	A. tholloni 1405
UK 1927	characters distinguishing S. ingrami and	A. variegatum 1405
taxonomy of 2419	135	Blattella germanica 26, 549
Sepsis	Sergentomyia indica	Culicoides nubeculosus 631
in England 2456	flagellates in, in Bihar 1266	Dermacentor andersoni 3404
in Japan 2419	in India 1265, 1266	D. variabilis 3404
taxonomy of 2419	Sergentomyia ingrami	Glossina spp. 148
Sepsis albopunctata	descriptions of 135	G. austeni 649
Howardula albopunctata in, in Andhra	taxonomy of, characters distinguishing S.	G. morsitans 648, 762, 874, 2679, 2683,
Pradesh 1914		3325
	hamoni and 135	
in India 1914	Sergentomyia kauli, in India 1262	Haematobia irritans 1898
in cattle dung, in Andhra Pradesh 1914	Sergentomyia lesleyae, in Sudan 634	Hyalomma asiaticum 2744
Sepsis cynipsea	Sergentomyia magna (see S. africana magna)	Latrodectus hesperus 303
in UK 2456	Sergentomyia minuta	L. mactans 303
in sheep dung, in England 2456	in France 636	Monomorium pharaonis 229
	in Italy 764	Musca domestica 874, 1073, 1360, 2706,
Sepsis neocynipsea		
in UK 2456	in Portugal 1843	3325
in sheep dung, in England 2456	in animal housing, in Italy 764	Nauphoeta cinerea 3160
Sepsis nitens	Sergentomyia minuta sinkiangensis	Ornithodoros erraticus 3074
Howardula albopunctata in, in Andhra	biology of 421	Periplaneta americana 789, 2553, 2554
Pradesh 1914	in China 421	Rhipicephalus sanguineus 926
in India 1914		
	Sergentomyja schwetzi	
	Sergentomyia schwetzi	Vespa crabro 1631
in cattle dung, in Andhra Pradesh 1914	in Kenya 2972	book 2262, 2787
Sepsis orthocnemis	in Kenya 2972 in Senegal 2147	book 2262, 2787 measuring electroantennogram responses
	in Kenya 2972	book 2262, 2787
Sepsis orthocnemis	in Kenya 2972 in Senegal 2147	book 2262, 2787 measuring electroantennogram responses

Seychelles	Sheep contd.	simici, Phlebotomus
Aedes albopictus in, viruses in 1825	Oestrus ovis on	similis, Culicoides
dengue in 1825	development of 3335	similis, Parasarcophaga (see Sarcophaga
shastensis, Geomydoecus	in USSR 3331	similis)
Sheep (Ovis aries)	Ornithodoros lahorensis on, in Iran 2211	similis, Sarcophaga (Parasarcophaga)
Amblyomma variegatum on, in Malagasy	Peaton virus in, antibodies to 1253	Simmondsia paradoxa, in, Aphodius
Republic 3060	pest control on 2524	haemorrhoidalis, in Bulgaria 689
Argasidae on, in Iran 2211	Phthiraptera on, in Afrotropical region,	simplex, Cediopsylla
arthropod pests of	book 1177	simplex, Citellophilus
in Queensland 16	Psoroptes ovis on	simplicicolor, Simulium
in Sudan 1520	in Iran 503	simplicima, Haemaphysalis
in Wyoming 2524	in Lesotho 285	simpsoni, Aedes
Babesia spp. in, in Egypt 2756	in UK 3101	simpsoni, Culex
B. motasi in	Rhipicephalus spp. on, in Kenya 1641	simulans, Pulex
in Netherlands 1410	R. evertsi on, paralysis caused by 3395	simulator, Culex
in Wales 1948	R. sanguineus on, in Egypt 3394	simulator, Culicoides
bluetongue virus in	Simulium nigrum on, in USSR 2973	Simuliidae
in Idaho 3282	Theileria spp. in, in Egypt 2756	bacteria fed on by, in Finland 1577
in Sudan 1520	tick-borne diseases of, in Europe 1948	biology of 2392
Boophilus microplus on 3060	Trypanosoma spp. in, tolerance of 3327, 3328	cephalic fans in, capture of fine particles by 2667
Calliphoridae on		chromosomes in 1995
in Australia 164 in Western Australia 165	T. congolense in, tsetse transmission of 1870	control of
Cochliomyia hominivorax on	T. evansi in 184	biological 1535, 2086, 3313
in Mexico 456	Wohlfahrtia magnifica on, in Kazakhstan	evaluating of agents for 2396
in Texas 1919	3349	insecticides for 1289, 1803
Cowdria ruminantium in, in Réunion	Sheep dips, uptake of fluid from 2563	non-target effects of 1854
958	Sheep dung	repellents for 1288
Ctenocephalides canis on, effects on blood	Lucilia sericata in, in Poland 2707	evaluating of 1856
of 47	Scarabaeidae in, in Morocco 3385	timing of 3311
Culicidae on, in South Africa 84	Sepsidae in, in England 2456	Culicinomyces clavosporus in,
Culicoides spp. on	Sheep folds, Gamasinae in, in Transbaikalia	pathogenicity of 1829
in New York State 417	1032	Diffingeria turgenica in 1890
in South Africa 84	Sheep, Kamchatka snow-white (see Ovis	helminths in, in Uzbekistan 316
C. variipennis on, in Idaho 3282	nivicola)	in Austria 3316
Damalinia ovis on, in Spain 2850	Shelfordella tartara, sternal gland in,	in Italy 2392
diazinon in, persistence of 2563	functions of 3163	in Morocco 2674
Dicrocoelium dendriticum in, in	shimba, Onthophagus obliquus	in Nearctic region, book 2587
Yugoslavia 688	shintienensis, Aedes japonicus (see A. japonicus)	in Nigeria 2003 in South Africa 2139
D. lanceolatum in, in France 2727 ectoparasites of, in Philippines 2813	Ships, mosquito control in 370	in Transbaikalia 1067
Eperythrozoon ovis in, mosquito	shnitnikovi, Hybomitra	in Ukraine 1079
transmission of 2129	Shops, Blatta orientalis in, in UK 3157	in Zaïre 2673
Epicauta lemniscata on, diagnosis of	shorttii, Sergentomyia	in rivers, sampling of 3311
poisoning by 230	Shrew	in streams, in Newfoundland 3313
fleece rot in, resistance to 172, 173, 176,	arthropod parasites of, in USSR 1046	insecticide resistance in 1803
177	Siphonaptera on	insecticide susceptibility in, determination
fly control on 162, 166, 180, 181	in Pyrenees 2340	of 2675
chemicals for 170	in Scandinavia 2340	maxillary sensilla in 3309
cost of 163	Shrew, common (see Sorex araneus)	Mermithidae in 1134
drying agents for 2174	Shrew, house (see Suncus murinus)	host specificity of 643
economics of 1924	Shrew, pigmy (see Sorex minutus)	in Newfoundland 643
lowering fleece moisture for 175	Shrew, short-tailed (see Blarina brevicauda)	Microsporida in, in USSR 1045 natural enemies of, in Ukraine 1059
management practices for 178, 179	Shrimp in fresh water, effects of pyrethroids on	on aquatic plants, in Poland 2394
pizzle dropping for 182	2157	on cattle
resistance for 171	pyrethroids in, toxicity of 876	effects of 1290
testing insecticides for 169	Shunsennia, taxonomy of 3095	effects on productivity of 1521
Haemaphysalis punctata on, in	Sialic acids, in Heterometrus scaber venom	in Alberta 1288, 1289
Netherlands 1410	3434	on deer, in German Democratic Republic
Hippobosca variegata on, in Saudi Arabia	siangensis, Copris	1721
2533	sibirica, Amphipsylla	Onchocerca volvulus in, transmission of
Hyalomma impressum on, immunity to	sibirica, Forcipomyia	2398
1939	Sicarius, on man, effects of bites by 1478	pathogens of, bibliography 2517
Hydrotaea irritans on, in UK 3048	Sierra Leone	phagostimulants for 1471
Ixodes ricinus on, in UK 3048	onchocerciasis in 1111	physiological age of, determining of 287
Ixodidae on, in Egypt 2752 Ixodoidea on	Simulium spp. in 1111 sierrensis, Aedes	potassium hydroxide in, morphological changes caused by 1846
in Europe 1948	Sigara ornata	predators of, in USSR 1045
role in back-rolling of 320	in USA 2046	stream parameters as affecting 141
Linognathus spp. on, in Iran 503	parasitised by, Hydrachna conjecta, in	taxonomy of, described by J. W. Meigen
louping ill, virus in, in UK 1946	New York State 2046	3315
Lucilia caesar on, in Norway 2408	Sigmodon hispidus, Hoplopleuridae on, in	Simuliini, taxonomy of 1846
L. cuprina on	Mexico 1465	Simulium
effects of skin structure on susceptibility	signatus, Ixodes	cell cultures from, nematode culture in
to 193	silaceus, Chrysops	2381
in Australia 162, 779, 2832	Silage, Stomoxys calcitrans in, in Florida	chromosomes in 1579
in New South Wales 175, 182	3352	control of 1705
in Victoria 2199	silantiewi, Oropsylla	biological 3313
leakage of plasma proteins to skin	Silica, against, Nosopsyllus fasciatus 2578	in Philippines 2813 in Poland 2391
surface caused by 3039 oviposition by 166	Silicate, in Simulium breeding water 2666 Silicate(2-), hexafluoro-, disodium, in	in Saudi Arabia 2534
effects of bacteria on 174	Musca domestica, diflubenzuron delaying	in Sierra Leone 1111
resistance to 171, 176, 177, 178, 2718	toxic effects of 1892	in Transbaikalia 1067
L. illustris on, in Norway 2408	Silpha carinata	in Ukraine 1059
L. sericata on	Hymenolepis uncinata in, in Bulgaria	in streams, in Newfoundland 3313
in Poland 2707	689	insecticides in, determining of
in Switzerland 471	in Bulgaria 689	susceptibility to 3190
Melophagus ovinus on	silvarum, Dermacentor	Mansonella ozzardi in, in Brazil 1580
mortality of 3357	silvatica, Leptopsylla (see Peromyscopsylla	maxillary sensilla in 3309
resistance to 666	silvatica)	on cattle, in Alberta 1287
role in back-rolling of 320	silvatica, Peromyscopsylla (Leptopsylla)	on man, in Colombia 2156
Oestroidea on, book 2691	Silvius, in Uzbekistan 1070	pathogens of, in Guatemala 144

Simulium contd.	Simulium callidum contd.	Simulium equinum bianchii
predators of, detecting of 1482	parous rate in 1585	taxonomy of, characters distinguishing S
respiratory organs in 1853	pathogens of, in Guatemala 144	e. ivashentzovi and 1080
taxonomy of 1846	Simulium canariense, taxonomy of, synonym	variability in 1080
isoenzymes as characters for 53	of S. pseudequinum 2670	Simulium equinum ivashentzovi
Simulium adersi, life history of 2979	Simulium cholodkovskii	taxonomy of, characters distinguishing S
Simulium albivirgulatum	in USSR 1067	e. bianchii and 1080
in Zaïre 1847	Mermithidae in, in Transbaikalia 1067	variability in 1080
on man, in Zaïre 1847	on man, in Transbaikalia 1067	Simulium erimoense
Onchocerca volvulus in, in Zaïre 1847	Simulium codreanui	sp. nov., description of (in Eusimulium)
Simulium amazonicum	habitats of 1076	2665
in Brazil 1580, 2399	in USSR 1076	in Japan 2665
Mansonella ozzardi in, in Brazil 1580	overwintering in 1076	Mermithidae in, in Hokkaido 2665
taxonomy of, characters distinguishing S. argentiscutum and 2399	Simulium costatum habitats of 1076	Simulium erythrocephalum
complex of	in German Federal Republic 1268	control of, insecticides for 2668
on man	in USSR 1076	food of 1037
distribution pattern of 3318	Microsporida in, in German Federal	in Czechoslovakia 1857
in Guyana 3318	Republic 1268	in Poland 2391
Simulium angustitarse	overwintering in 1076	in USSR 1037
habitats of 1076	Simulium crenobium	life-cycle of 2391
in USSR 1054, 1076, 1586	in German Federal Republic 1268	particle sizes taken up by 2668
overwintering in 1076	Microsporida in, in German Federal	population age-structure in 1857
parasitised by	Republic 1268	Simulium exiguum
Hydrachnellae, in Ukraine 1054	Simulium damnosum	in Colombia 638
Sperchontidae, in USSR 1586	control of	on man, in Colombia 638
Simulium arcticum control of	insecticides for 2668 non-target effects of 1691	Onchocerca volvulus in, transmission of 638
insecticides for 1270, 1271, 1272,	enzymes in 3314	Simulium galeratum, in Poland 2391
1273, 1274, 1275, 1276, 1277, 1278,	gonotrophic cycle in 2975	Simulium griseicolle
1286, 1289, 1292	illustrations of 143	in Sudan 1841
non-target effects of 1279, 1280, 1281,	in Ivory Coast 1691, 2975	Onchocerca gutturosa in, in Sudan 184
1282, 1283, 1284, 1292	in Nigeria 637	Simulium guianense
timing of 1271	in Sierra Leone 1111	feeding behaviour in 1269
in Canada 1270, 1271, 1272, 1286, 1287,	in Upper Volta 147	in Brazil 1269
1289, 1291, 1292	migration in 1850	on man, in Brazil 1269
in rivers, sampling of 1291 on cattle, in Alberta 1286, 1287, 1289	Onchocerca volvulus in, transmission of 147	Simulium horacioi
Simulium argenteostriatum	particle sizes taken up by 2668	sp. nov., description of 1582 in Guatemala 1582
habitats of 1076	taxonomy of, enzymes as characters for	in coffee plantations, in Guatemala 158
in USSR 1076	3314	on man, in Guatemala 1582
overwintering in 1076	complex of	Onchocerca volvulus in, transmission of
Simulium argentiscutum	control of 1702, 2671	3312
sp. nov., description of 2399	insecticides for 1508, 1704, 2672	Simulium horokaense
biology of 2399	evaluating of 1703	sp. nov., description of 2665
in Brazil 2399	Gastromermis spp. in, in Ivory Coast	in Japan 2665
in Colombia 2399	145	on man, in Hokkaido 2665
Mansonella ozzardi in, in Brazil 2399 on man, in Brazil 2399	gut in, passage of food through 427, 428	Simulium ibariense, in Poland 2391 Simulium incrustatum
Simulium argus, in USA 2118	in Ghana 2152	control of, insecticides for 3317
Simulium argyreatum	insecticides in, passage through gut of	in Guyana 3317
food of 1037	428	complex of
in German Federal Republic 1268	Isomermis lairdi in, in Ivory Coast	on man
in Poland 2391	145	distribution pattern of 3318
in USSR 1037, 1054, 1586	key 143	in Guyana 3318
Microsporida in, in German Federal	on man	Simulium jenningsi
Republic 1268 parasitised by, Hydrachnellae, in Ukraine	in Nigeria 2671 in Togo 1581	in USA 1855 nectar-feeding in 1855
1054	in Upper Volta 2672	parity in 1855
taxonomy of	Onchocerca volvulus in, transmission of	Simulium johannseni duplex, in Canada
characters distinguishing S.	3310	3311
parargyreatum and 424	plant feeding in, in Togo 1581	Simulium johannseni johannseni
Simulium noelleri as synonym of 424	predators of, in Ivory Coast 1849	in Canada 3311
S. noelleri misidentified as 3315	rearing of, techniques for 2981	on cattle, in Manitoba 3311
S. rheophilum as synonym of 3315	resting places of 2676, 2677	on horse, in Manitoba 3311
S. subornatum as synonym of 424	seasonal size variation in 641 taxonomy of 2673	on man, in Manitoba 3311
Simulium aureum (see also Eusimulium aureum)	enzymes as characters for 3314	Simulium lahillei, taxonomy of, characters distinguishing S. muiscorum and 432
in USSR 1054	Tetrahymena spp. in, in Ivory Coast	Simulium latinum, in Morocco 2674
parasitised by, Hydrachnellae, in Ukraine	429	Simulium latipes
1054	traps for 2152	habitats of 1076
Simulium auricoma	Simulium decimatum	in German Federal Republic 1268
habitats of 1076	in USSR 1067	in USSR 1067, 1076
in USSR 1076	Mermithidae in, in Transbaikalia 1067	Mermithidae in, in Transbaikalia 1067
overwintering in 1076 Simulium austeni	Simulium decorum	Microsporida in, in German Federal Republic 1268
in Poland 2391	control of, insecticides for 2980 in Canada 1286, 3311	overwintering in 1076
life-cycle of 2391	in USA 1851	Simulium latizonum, in Morocco 2674
taxonomy of, synonym of S. posticatum	on cattle, in Alberta 1286	Simulium lineatum
3315	on man, feeding by 2395	biology of 426
Simulium balcanicum, in USSR 1054	Onchocerca lienalis in, development of	in France 426
Simulium brachyantherum	1852	in Poland 2391
in USSR 1023	O. volvulus in, development of 1852	in UK 2670
resting places of 1023 Simulium brevidens	population dynamics of 1851	in USSR 1054 Simulium longipalpe
habitats of 1076	rearing of apparatus for 2981	in USSR 1067
in USSR 1076	techniques for 431, 2395	on man, in Transbaikalia 1067
overwintering in 1076	Simulium equinum	Simulium luggeri
Simulium buisseti	biology of 426	in Canada 2669, 3311
sp. nov., description of 2673	in France 426	larvae of, distinguishing instars of 2669
in Zaïre 2673	in Poland 2391	on cattle, in Manitoba 3311
Simulium callidum in Guatemala 144, 1295, 1585	in UK 2670 life-cycle of 2391	on horse, in Manitoba 3311 on man, in Manitoba 3311

distribution pattern of 128

Simulium sirbanum contd. Simulium ornatum contd. Simulium malyshevi on cattle contd. taxonomy of, enzymes as characters for in USSR 1067 Mermithidae in, in Transbaikalia 1067 in German Federal Republic 465 3314 Simulium mediterraneum (see also Simulium Onchocerca gutturosa in, production of Simulium soubrense pseudequinum) 585 control of, insecticides for 2678 biology of 426, 642 overwintering in 1076 enzymes in 3314 in France 426 in USSR 430, 642, 1023, 1054 gonotrophic cycle in 2975 parasitised by Hydrachnellae, in Ukraine 1054 illustrations of 143 in Ivory Coast 433, 1849, 2678, 2975 in Upper Volta 147 larvae of, variation in sexual dimorphism Sperchontidae, in USSR in 430 particle sizes taken up by 2668 in 430
Microsporida in, in Ukraine 642
preyed on by, Hydropsyche angustipennis,
in Ukraine 642
resting places of 1023
taxonomy of, synonym of S.
pseudequinum 2670
Simulium meridionale
in Canada 3311
on cattle, in Manitoba 3311
on man, in Manitoba 3311
Simulium metallicum Simulium ovazzae Onchocerca volvulus in, transmission of in Zaïre 2673 on crab, in Zaïre 2673 predators of, in Ivory Coast seasonal size variation in 641 1849 Simulium panamense in Costa Rica 2154 taxonomy of, enzymes as characters for Mesomermis travisi in, in Costa Rica 2154 3314 temephos resistance in, in Ivory Coast Simulium paramorsitans in Poland 2391 life-cycle of 2391 433, 2678 Simulium spinibranchium descriptions of 2155 Simulium parargyreatum sp. nov., description of 424 in USSR 424 Simulium metallicum in Brazil 2155 descriptions of 1582 in Colombia 638 taxonomy of, lectotype for 2155 in Costa Rica 2154 in Guatemala 144, 1295, 1582, 1585 Simulium squamosum Simulium pathrushevae Simulium pathrushevae
sp. nov., description of (in Cnetha) 423
biology of 423
in USSR 423
Simulium penobscotensis
breeding places of 1848
in USA 1848 enzymes in 3314 illustrations of 143 Mesomermis travisi in, in Costa Rica 2154 taxonomy of, enzymes as characters for 3314 on man distribution pattern of 3318 in Colombia 638 Simulium subornatum, taxonomy of, synonym of S. argyreatum Onchocerca volvulus in, transmission of Simulium tarnogradskii Simulium pictipes 638, 3312 Onchocerca lienalis in, development of in USSR 1023 parous rate in 1585 1852 resting places of 1023 pathogens of, in Guatemala 144 taxonomy of, characters distinguishing S. rearing of, techniques for 431 Simulium tescorum biology of 2664 descriptions of in USA 2664 Simulium posticatum, taxonomy of, horacioi and 1582 Simulium austeni as synonym of 3315 2664 Simulium mexicanum in Guatemala 1585 parous rate in 1585 Simulium pseudequinum (see also Simulium in USA 2004 on man, in California 2664 Simulium transiens in USSR 1067 Mermithidae in, in Transbaikalia 1067 mediterraneum)
in UK 2670
in USSR 2663
larvae of, generation variability in 2978 taxonomy of, characters distinguishing S. muiscorum and 432 morphology of, effects of biotope on Simulium truncatum Simulium monticola, group of, in USSR 1076 2663 in USSR 1067 Simulium morsitans taxonomy of on man, in Transbaikalia 1067 in Poland 2391 life-cycle of 2391 Simulium canariense as synonym of Simulium tuberosum in Canada 3311 2670 in Canada 3311
in German Federal Republic 1268
Microsporida in, in German Federal
Republic 1268
Simulium variegatum
habitats of 1076
in Morocco 2674
in USSR 1076
overwintering in 1076
Simulium veltistshevi Simulium muiscorum
sp. nov., description of 432
in Colombia 432 S. mediterraneum as synonym of 2670 Simulium pusilium, in Poland 2391 Simulium reptans illustrations of Simulium neavei group of 3316 in Austria 3316 on livestock, in Austria 3316 control of 1702 in Zaïre 2673 Simulium rheophilum, taxonomy of, synonym of S. argyreatum 3315 Simulium rostratum, in USSR 1067 Simulium nigritarse, life history of 2979 Simulium nigrum in USSR 2973 on cattle, in USSR 2973 on goat, in USSR 2973 on sheep, in USSR 2973 on the user in USSR 2973 on the user in USSR 2973 on the user in USSR 2973 outbreaks of 2973 Simulium veltistshevi in USSR 1023 Simulium ruficorne, group of, in Morocco 2674 resting places of 1023 2674
Simulium sanctipauli
control of, insecticides for 2678
enzymes in 3314
gonotrophic cycle in 2975
illustrations of 143
in Ivory Coast 433, 1849, 2678, 2975
in Upper Volta 147
Onchocerca volvulus in, transmission of Simulium venustum control of, repellents for, evaluating of 2973 1856 cytotypes of, limnological factors associated with 2666 Dirofilaria ursi in, development of 1296 in Canada 1286, 3311 Simulium noelleri taxonomy of misidentified as S. argyreatum synonym of S. argyreatum 424 in Canada 12 in USA 2666 Simulium ochraceum on cattle indulum ocaraceum gonotrophic cycle in 1585 in Guatemala 144, 1295, 1585 on man, distribution pattern of 3318 Onchocerca volvulus in development of 1295 transmission of 1585, 3312 predators of, in Ivory Coast seasonal size variation in 641 in Alberta 1286 in Manitoba 3311 tarsi in, sensilla on 1578 taxonomy of, enzymes as characters for complex of feeding behaviour in 425 on man, in Maine 425 Simulium verecundum control of, biological 2085 3314 temephos resistance in, in Ivory Coast 433, 2678 425 Simulium sanguineum uptake from man of 1584, 2151 feeding behaviour in 12 in Brazil 870, 1269 on man, in Brazil 1269 parous rate in 1585 cytotypes of, limnological factors associated with 2666 pathogens of, in Guatemala Simulium ornatipes, zinc in, effects on water relations of 2393

Simulium ornatum group of, Mansonella ozzardi in, development of 2156 development in effects of food supply on 2974 Coelomycidium simulii in, localisation of 1065 effects of temperature on in Canada 3311 in USA 2666 Simulium simplicicolor 2974 feeding behaviour in 1269 in Brazil 1269 control of, insecticides for 2668 feeding behaviour in 1293, 1294 habitats of 1076 on man, in Brazil 1269 Simulium sirbanum Neoaplectana carpocapsae in, pathogenicity of 1858 on horse, in Manitoba 3311 on man, in Manitoba 3311 illustrations of 3316 in Austria 3316 control of, timing of 146 development in 146 in Austria 3316
in German Federal Republic 465, 1268
in Poland 2391
in USSR 1054, 1076, 1586
life-cycle of 2391
Microsporida in, in German Federal
Republic 1268
on cattle Simulium virgatum, in USA 2118 Simulium vittatum enzymes in 3314 gonotrophic cycle in 2975 illustrations of 143 control of in Ivory Coast 2975 in Upper Volta 147 bioassay of larvicides for 2977 biological 2397, 2976 Onchocerca volvulus in, transmission of 147 development in effects of food supply on 2974 effects of temperature on 2974

seasonal size variation in 641

Simulium vittatum contd.	Siphonaptera contd.	Sminthopsis leucopus, Guntheria
fecundity in, effects of blood-feeding on	on man	weedunnarti on, in Northern Territory
640	disease transmission by 2316	1422
feeding behaviour in 639	in central Europe 820	smithii, Wyeomyia
effects of suspended particles on 2397	on Microtus brandti, in Transbaikalia	Smittia
host preferences in 639	1026	on Rhododendron, in Pennsylvania 3359
in Canada 1286, 3311	on Microtus canicaudus, in Oregon 2586	sugar-feeding in 3359
in USA 3282	on Neotomodon, in Mexico 1458	Smittium, in, Culicidae, in Nebraska 2043
Johnston's organ in 2153	on <i>Peromyscus maniculatus</i> , reinfestation	Snail
Neoaplectana carpocapsae in,	by 2002	parasitised by, Sciomyzidae, in Italy 9
pathogenicity of 1858	on rat, in Poland 50	preyed on by
on cattle, in Alberta 1286	on Rattus norvegicus, in Wisconsin 2304	fish 1543
	on Rodentia	
on horse, in Manitoba 3311		Sciomyzidae, in Italy 9
on man, in Manitoba 3311	in Argentina 321	Snake
on sheep, in Idaho 3282	in Caucasus 2868	Culex pipiens on, in Honshu 2908
rearing of, techniques for 431	in Java 2819	Ornithodoros spp. on, in Georgia (USSR)
	in Maritime Territory 3389	3408
Simulium vulgare	on rodents	Snares Islands (indexed under New Zealand
in USSR 1067	in Brazil 1751	Island Territories)
Mermithidae in, in Transbaikalia 1067	in Burundi 49	Sneezing, in Zalophus californianus, caused
Simulium yahense	on small mammals	
enzymes in 3314		by Orthohalarachne diminuata 1423
illustrations of 143	in Maritime Territory 491	Snowshoe hare virus, in, Aedes triseriatus,
	in Pyrenees 2340	transmission of, molecular basis of 2630
in Ivory Coast 641	in Scandinavia 2338, 2340	Sodium
in Upper Volta 147	in Siberia 3184	in Aedes togoi hemolymph, regulation of
Onchocerca volvulus in, transmission of	on Sylvilagus floridanus	857
147	in Indiana 3145	in Amblyomma maculatum 1644
taxonomy of, enzymes as characters for	in USA 1155	
		in Calliphora vicina, recycling in rectum
3314	overwintering of, in birds' nests 2005	of 2175
simus, Rhipicephalus	pathogens of, bibliography 2517	in camel blood, effects of Haematopinus
sinanoensis, Culicoides	poem 2310	tuberculatus on 1175
Sindbis virus	research on	in Nauphoeta cinerea salivary glands,
in	in India 2337	active transport of 333
Aedes albopictus	in USSR 2318	in rat salivary glands, Tityus serrulatus
defective-interfering particles of 835	Rickettsia mooseri in, transmission of	venom stimulating secretion of 2780
		in Cinciliant banding secretion of 2760
factor antagonistic to 1838	2321	in Simulium breeding water 2666
infectivity of 2639	skeletal structures in 2332	Sodium chloride
interference in 2961	zoogeography of 2311	in Aedes rearing water, effects on larval
persistence of 2961	Siphonella neglecta, taxonomy of,	development of 3231
Culex tritaeniorhynchus, in Taiwan	transferred to Malloewia 1832	in Mesobuthus eupeus, receptors for
2032	SIR-6874 (see Benzamide, 2-chloro-N-[[[3,5-	3431
man, in West Malaysia 1246	dichloro-4-(4-nitrophenoxy)phenyl]amin-	in Phormia regina, effects of ziziphin on
research methods with 1471	o]carbonyl]-)	
		receptors for 1613
sinensis, Anopheles	SIR-8514 (see Benzamide, 2-chloro-N-[[[4-	Sodium fluosilicate (see Silicate(2-),
sinensis, Megabothris	(trifluoromethoxy)phenyl]amino]carb-	hexafluoro-, disodium)
Singapore, Pyemotes ventricosus in, on man	onyl]-)	Soil
1657	sirbanum, Simulium	insecticides in
Sink holes, Culicidae in, in Missouri 3211	siro, Acarus	bioassay of 1455
sinkiangensis, Sergentomyia minuta	Siseca	residues of 1709
sinoculus, Pulex	habitats of 2811	Scarabaeidae in, effects of 3054
sinuator, Arrenurus	in West Malaysia 2811	Soil moisture, Aedes vexans oviposition as
Siphona stimulans (see Haematobosca	Sisyphus, in cattle dung, in Bulgaria 1385	affected by 3242
stimulans)	Siteroptes queenslandicus	Solanum tuberosum (see Potato)
Siphonaptera 1479	sp. nov., description of 1363	Solar eclipse
adaptive modifications in 2307	in Australia 1363	effects of, on
adaptive radiation in 2308	parasitising, Stomoxys calcitrans, in	Culex quinquefasciatus 3223
bacteria in, in Kirghizia 1033	Queensland 1363	Wuchereria bancrofti 3223
combs in, functions of 2309	Siteroptidae, in mammal nests, in USSR	Soldado virus
conference 2305	1053	in
control of	sitiens, Culex	Ornithodoros capensis, in West Africa
for disease control 2315	Sitobion avenae, control of, insecticides for	704
insecticides for 2325	2507	O. maritimus 2213
evolution of 2311	Sitophilus granarius, on man,	sea birds, effects of 1947
fables, folklore and fantasies concerning		Solenodon cubanus, Cubanochirus maximus
2314	hypersensitivity to 991	Solehoudh Cubanus, Cubanochinas maximus
	hypersensitivity to 991 Skin diseases, parasitic, in man, caused by	
feeding of, apparatus for 1185	Skin diseases, parasitic, in man, caused by	on 1952
feeding of, apparatus for 1185	Skin diseases, parasitic, in man, caused by arthropods 1148	on 1952 Solenodon paradoxus, Cubanochirus spp. on,
host skin penetration by 2327	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952
host skin penetration by 2327 in Afghanistan 2029	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to house-	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to house-dust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs)	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to house-dust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei)	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to house-dust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to house-dust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopotis geminata Burenella dimorpha in infectivity of 3388
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenoposis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033 in New Zealand 2312	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333 palaeoecology of 3006	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384 hot water for 918
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033 in New Zealand 2312 on cat, transfer to man of 1417	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333 palaeoecology of 3006 Sloth, Lepidoptera on, in Americas 1632	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenoposis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384 hot water for 918 insecticides for 759, 2829
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033 in New Zealand 2312	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333 palaeoecology of 3006 Sloth, Lepidoptera on, in Americas 1632 Sloth, three-toed (see Bradypus tridactylus)	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384 hot water for 918 insecticides for 759, 2829 head glands in 2206
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033 in New Zealand 2312 on cat, transfer to man of 1417	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333 palaeoecology of 3006 Sloth, Lepidoptera on, in Americas 1632	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenoposis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384 hot water for 918 insecticides for 759, 2829
host skin penetration by 2327 in Afghanistan 2029 in Alaska 2330 in Italy 2029 in Michigan 2585 in Mongolia 2583, 2870 in Nigeria 2003 in West Malaysia 2803 in Agelaius phoeniceus nests, in Manitoba 864 in bat dung, in Massachusetts 2582 in poultry housing, in England 1717 insecticide resistance in 2315 interspecific associations of, statistical analysis of 2586 male genitalia in, abnormalities in 2329 marking of, dyes for 360 mounting media for 1149 olfactory system in, evolution of 3132 on birds in Kirghizia 1033 in New Zealand 2312 on cat, transfer to man of 1417 on dog, transfer to man of 1417	Skin diseases, parasitic, in man, caused by arthropods 1148 Skin tests for diagnosing hypersensitivity to housedust mites 1419 for diagnosing hypersensitivity to Hymenoptera stings 1389, 2455 Skin ulcer, in man, caused by Tunga penetrans 2865 Slaughterhouses (see Abattoirs) Sleeping sickness (see also Trypanosoma brucei) control of 1587 vector control for 1332 foci of 1869 in Africa, review 1311 in Congo 1310, 2994 in Ivory Coast 1872 in Nigeria 1309, 1322 in Tanzania 1871 in Upper Volta 644 in West Africa 1869, 1873 in Zambia 1333 palaeoecology of 3006 Sloth, Lepidoptera on, in Americas 1632 Sloth, three-toed (see Bradypus tridactylus)	on 1952 Solenodon paradoxus, Cubanochirus spp. on, in Dominican Republic 1952 Solenopotes burmeisteri in New Zealand 1172 on Cervus elaphus, in New Zealand 1172 Solenopotes capillatus biology of 2853 control of 2853 in New Zealand 2290 in USA 2853 on cattle, in USA 2853 Solenopotes ferrisi in Canada 556 on Odocoileus, in Alberta 556 Solenopsis geminata Burenella dimorpha in infectivity of 3388 transmission of 3388 Solenopsis invicta control of biological 3384 hot water for 918 insecticides for 759, 2829 head glands in 2206

Solenopsis invicta contd.	South Carolina	Spermophilus lateralis contd.
		Dermacentor andersoni on, in Colorado
intercastes in 1388	Culicidae in	
mounds of, monitoring of distribution	in dredgings 2910	1403, 3406
within 481	in salt marshes 2910	Spermophilus richardsonii, Colorado tick
nests of, mapping of 1387	South Dakota	fever, virus in, in Colorado 3406
pathogens of, in Brazil 1627	Astigmata in, on small mammals 511	Spermophilus tridecemlineatus, Thrassis
post-pharyngeal glands in, functions of	Oeciacus vicarius in, viruses in 1749	fotus on, in Texas 1753
		Sphaeridium, in cattle dung, movement
2203	South Korea, Culicidae in 2122	
preying on	South-West Africa, Loxosceles vonwredei in	patterns of 3050
Amblyomma americanum, in Louisiana	2257	Sphaeridium bipustulatum, biology of 1928
2209	Spain	Sphaeridium lunatum
Haematobia irritans, in Louisiana	Anopheles maculipennis in, viruses in	attraction of, to cattle dung 225
2209	2233	biology of 1928
	Argasidae in 243	in Belgium 225
queen pheromone in, storage in poison sac	Caparinia algirus in, on Aethechinus 284	
of 3058	Ceratopogonidae in, in tree holes 129	Sphaeridium scarabaeoides
range expansion of, model 2730	Cervus elaphus in, arthropod parasites of	attraction of, to cattle dung 225
rearing of		biology of 1928
diets for 482	1117	in Belgium 225
techniques for 2725	Culicidae in 2941	in USA 3210
	Damalinia ovis in, on sheep 2850	in pastures, effects of insecticides on
soil characteristics and 1628	Dermacentor marginatus in, viruses in	
venom of 1388	2233	3210
Solenopsis richteri, rearing of, techniques for	Haematopota csikii in 17	Taenia saginata in, transmission of 488
2725	Ixodes ricinus in, viruses in 2233	Sphaeroceridae
Solenopsis saevissima	Ixodidae in 243	in USSR 675
in Brazil 1627		in cattle farms, in Bulgaria 902
	Ixodoidea in, on rabbit 2869	
pathogens of, in Brazil 1627	Knemidokoptes mutans in, on Alectoris	preyed on by, Scathophaga stercoraria, in
sollicitans, Aedes	3419	UK 1927
Solomon Islands, Aedes albopictus in 1550	leishmaniasis in 3308	Sphaerulariidae, in, insects, book 1134
Somalia	Linguatula serrata in, on goat 3117	Sphecidae, in British Isles 691
Ixodoidea in 951	Mallophaga in, on birds 340	sphegea, Sepedon
	Phlebotomus spp. in 3308	spickai, Geomydoecus
Rhipicephalus pulchellus in, viruses in		Spider (see Araneae)
251	Rhipicephalus bursa in, on cattle 3078	
sondaica, Neopsylla	Sciuropsis guevarai in, on Aethechinus	Spilopsyllus cuniculi
sorbens, Musca	284	in Australia 46, 2323
· · · · · · · · · · · · · · · · · · ·	Scorpiones in, on man 1427	in France 2335
sordes, Tabanus laetitinctus	Spilopsyllus cuniculi in, on rabbit 2869	in Portugal 2336
sordida, Triatoma	Tabanidae in 451	in Spain 2869
Sorex	Tabanus darimonti in 3368	in UK 2324
ectoparasites of, in Scandinavia 2338	Thyreophagus gallegoi in, in house dust	myxoma virus in, transmission of 2323,
mites on, in Oregon 509	1971	2324
Sorex araneus	Spalangia, parasitising, Musca domestica, in	on Oryctolagus cuniculus
Gamasoidea on, in USSR 1675	North Carolina 1345	in France 2335
Ixodes trianguliceps on, in Ukraine 2736	Spalangia cameroni	in Portugal 2336
Palaeopsylla soricis on, in Hungary 2027	in USA 1345	in Spain 2869
Siphonaptera on, in USSR 1049	parasitising	on rabbit
Sorex bendirii, mites on, in Oregon 509	Lucilia cuprina 480	in Australia 2323
Sorex cinereus, Ixodes marxi on, in Canada	Musca domestica 480	in UK 2324
720	in North Carolina 1345	ovarian development in 2328
Sorex minutus	Spalangia drosophilae 1345	seasonal abundance of 2336
Gamasoidea on, in USSR 1675	Spalangia endius	Spinach (Spinacia oleracea)
Ixodes trianguliceps on, in Ukraine 2736	in USA 1345	Spinach (cooked), naled in, uptake from air
Sorex pacificus, mites on, in Oregon 509	parasitising	of 2266
Sorex trowbridgii, mites on, in Oregon 509	Lucilia cuprina 480	Spinacia oleracea (see Spinach)
Sorghum (Sorghum bicolor)	Musca domestica 480	spinibranchium, Simulium
Sorghum meal, in rodent baits containing	and biological control using, in	spinifera, Prowichmannia
acaricides 1412	Florida 367	spiniger, Geotrupes
soricis, Palaeopsylla	in North Carolina 1345	Spinolaelaps
Soriculus leucops, Siphonaptera on, in		on bat
	Stomoxys calcitrans	
Yunnan 568	and biological control using	in Moldavia 1077
Soriculus nigrescens, Protomyobia	in Florida 367	in Uzbekistan 1071
nepalensis on, in Nepal 1004	in Virgin Islands 1090	spinolai, Triatoma
soubrense, Simulium	Spalangia nigra	spinosetosus, Herpetacarus
South Africa	in USA 1345	spinosus, Culicoides
Amblyomma hebraeum in	parasitising, Musca domestica, in North	Spinturnicidae, in Philippines 3416
on cattle 945	Carolina 1345	Spinturnix
rickettsiae in 945	Spalangia nigroaenea	in Philippines 3416
Boophilus spp. in, on cattle 2224	in USA 1345	on bat, in Uzbekistan 1071
B. decoloratus in	parasitising, Musca domestica, in North	spinulosa, Polyplax
natural enemies of 2468	Carolina 1345	Spirocerca lupi, in, Scarabaeidae, in Egypt
on cattle 948	Sparganium, Simulium penobscotensis	3374
B. microplus in 939	associated with, in Maine 1848	Spirochaetales
on cattle 948	Sparrow, Argasidae on, in Iran 2211	in
Culex theileri in, viruses in 2139	Sparrow, house (see Passer domesticus)	Ornithodoros tartakovskyi, in Kirgizia
Culicidae in 84	spatzi, Leptotrombidium	1688
Culicoides spp. in 84	spectabilis, Tabanus	O. tholozani, in Kirgizia 1688
Culiseta longiareolata in 2364	Speleorodens clethrionomys	Spiro[11-oxabicyclo[8.1.0]undec-6-ene-2,2'-
Cydistomyia emergens in, on man 2716	descriptions of 1656	oxiran]-3-one, 8-methylene-5-(1-
Fucellia capensis in, on Ecklonia 2439	in Sweden 1656	methylethyl)-
game animals in, pest control on 1888	on golden hamster, in Sweden 1656	[1R-(1R*,2R*,5S*,6E,10R*)]-
Ixodidae in, natural enemies of 1643	Spectyto, Pulex irritans on, in North	attractant for, Periplaneta americana
Ixodoidea in, on cattle 1645	America 2313	3161
Latoia vivida in, on man 485	Sperchon setiger	Periplaneta americana sex pheromone
medical entomology in 1248, 1478	in USSR 1586	2553, 2554
pesticide use in 1984	parasitising, Simulium spp., in USSR	Spiroplasmataceae, in, Ixodes pacificus, in
Rhipicephalus appendiculatus in, natural	1586	Oregon 3081
enemies of 2468	Sperchonopsis, parasitising, Simulium spp.,	splendens, Toxorhynchites
Strobiloestrus spp. in, on cattle 1341	in USSR 1586	Splendidofilaria
Tabanus biguttatus in 2716	Spermine (see 1,4-Butanediamine, N,N'-	taxonomy of
South Australia	bis(3-aminopropyl)-)	characters distinguishing Chandlerella
medical entomology in 3037	Spermophilus lateralis	and 1573
sheep in, fly control on 163	Colorado tick fever, virus in, in Colorado	characters distinguishing Eufilaria and
veterinary entomology in 3037	1403, 3406	1573
The state of the s	1100, 0100	1373

for 2264	Spotted-rever rickettsiae conta.	Stenotadanus
for 2264	tick transmission of 3137	autogeny in 2187
Spodoptera frugiperda	Spray irrigation (see Sprinkler irrigation)	on man, in Brazil 2187
in USA 2699	Sprays	Stephanofilaria assamensis
traps for 2699	effectiveness of	in
Spodoptera littoralis	effects of particle size on 1982	Haematobia irritans, not infective
enzymes in 1448	effects of weather on 1982	1891
insecticide resistance in, monitoring of	equipment for	
		H. thirouxi, in Uzbekistan 1891
1448	review 2271	Musca spp., not infective 1891
Spodoptera litura	rotary sleeve nozzles, spray spectra	stephensi, Anopheles
control of	characteristics of 2273	stercoraria, Scathophaga
growth regulators for 1988	techniques for, review 2271	Sterile-insect release
insecticides for 2792	Springbok (see Antidorcas marsupialis)	against
Sporosarcina lutea	Sprinkler irrigation, with municipal sewage,	Anopheles albimanus 846
in	effects on mosquitoes of 2368	Cochliomyia hominivorax 456, 1919
Argas persicus, in Pakistan 247	Spruce resin	Culex tarsalis 2101
poultry, pathogenicity of 247	in Culex molestus, inhibiting development	model 2102
Sporozoa 1489, 1959, 3136	1011	Culicidae, review 3140
Aegyptianella pullorum 498	in quail, not affecting development 1011	Glossina spp. 1100, 1304
Anaplasma 1640, 2224, 2832, 3393	squamiger, Aedes	G. morsitans 1089, 1098
A. marginale 236, 937, 938, 943, 949,	squamipennis, Aedeomyia	G. palpalis 873, 1088, 1323, 1324,
950, 961, 2222, 2223, 2836, 2837,	squamosa, Vespula	1699, 1875, 1884, 3004
3060, 3078, 3082	squamosum, Simulium	Stomoxys calcitrans 1090
Ascocystis armigerei 1215	squamosus, Anopheles	S. nigra 444
A. culicis 1215, 2590	Squirrel	model 1429
A. lanyuensis 1215	Haemaphysalis japonica on, in Maritime	sternalis, Paraperiglischrus
A. taiwanensis 1215	Territory 2734	Sternostoma tracheacolum
Babesia 253, 940, 941, 943, 953, 965,	Trypanosoma cruzi in, in Mexico 352	control of
1109, 1721, 1938, 2259, 2476, 2756,	Sri Lanka	acaricides for 1413
2832, 3137, 3393, 3396	Anopheles culicifacies in 81, 2051	fumigants for 1413
B. bigemina 236, 245, 264, 937, 947,	Culex quinquefasciatus in 1206	descriptions of 1413
948, 1069, 1394, 1943, 2221, 2224,	Culicidae in 840	in Belgium 1413
2538, 3060	stabularis, Eulaelaps	in UK 2759
B. bovis 236, 947, 948, 1640, 2221, 2224,	Stachiella mustelae	on canary
2538, 3060, 3088	in Poland 323	diagnosis of 1413
B. canis 272	on Mustela, in Poland 323	in UK 2759
B. colchica 1069		
	stanfordi, Conorhinopsylla	Steroids, hydroxy, in Solenopsis invicta post-
B. divergens 277, 946, 1635, 2212, 3398	Stannane, (acetyloxy)triphenyl- (see Fentin	pharyngeal glands 2203
B. equi 3060	acetate)	Sterols (see Steroids, hydroxy)
B. major 3398	Stannane, chlorotriphenyl- (see Fentin	sticticus, Aedes
B. microti 242, 971, 1651, 3397	chloride)	sticticus, Aphodius
B. motasi 1410, 1948, 2472	Stannane, hydroxytriphenyl- (see Fentin	stilobezzioides, Culicoides
B. ovis 264, 3060, 3077	hydroxide)	stimulans, Aedes
Hammondia 220	stantoni, Phlebotomus	stimulans, Haematobosca (Siphona)
Hepatozoon erhardovae 2331	Staphylinidae	stimulans, Siphona (see Haematobosca
Isospora 220	in cattle dung, successions of 490	stimulans)
Leucocytozoon 2392	in dung, in USSR 1057	stimulator, Cephenemyia
L. tawaki 142	in poultry dung, in North Carolina 226	Stirofos (see Tetrachlorvinphos)
Mattesia geminata 1627	preying on, Musca domestica 1057	Stivalius, taxonomy of 2306
Plasmodium 5, 76, 86, 142, 326, 405,	Staphylococcus albus	Stivalius cognatus
617, 624, 829, 850, 1154, 1202, 1778,	in	control of, insecticides for 565, 1190,
1779, 1780, 1781, 2054, 2080, 2122,	Blatta orientalis, in UK 3157	2819, 3188
2127, 2259, 2285, 2372, 2373, 2380,	dog, associated with Demodex canis	in Indonesia 565, 817, 1190, 2819, 3188
2801, 2880, 3194, 3195, 3217, 3222,	2228	malathion resistance in, in Java 565,
3277, 3284	Rhyzopertha dominica 1633	1190
P. berghei 90, 616, 1198, 1199, 3197	starki, Palaeopsylla soricis	on Rattus rattus, in Java 3188
P. cynomolgi 680, 2058	Statistical methods	on Rodentia, in Java 2819
P. falciparum 572, 618, 623, 843, 1549,	estimation of infection rate from mixed	on small mammals, in Java 817
1767, 1776, 2058, 2128, 3198	sample sizes 831	Stivalius klossi, taxonomy of, transferred to
P. gallinaceum 2624, 3196	for analysing interspecific associations of	Aviostivalius 2306
P. hermani 837	ectoparasites of vertebrates 2586	Stocking density, of livestock, effects on
P. inui 2070	Statistics, for biologists, book 2	ticks of 1722
P. malariae 2058	Stearic acid (see Octadecanoic acid)	Stomorhina, in New Caledonia 3339
P. simium 576	Steatonyssus	Stomorhina discolor
P. vivax 623, 834, 843, 1041, 1552, 2058,	on bat	in New Caledonia 3339
2128, 2896, 3198	in Moldavia 1077	preying on, Musca domestica, in New
P. yoelii 57, 90, 610, 824	in Uzbekistan 1071	Caldeonia 3339
Sarcocystis 220	Steatonyssus occidentalis, Trypanosoma	Stomoxyinae
Stylocystis praecox 679 Theileric 276 043 053 2756 2078	hedricki in, not developing 2863	attractants for 1881
Theileria 276, 943, 953, 2756, 3078	Stegomyia	repellents for 1881
T. annulata 936, 944, 962, 3077	in Oriental region 575	Stomoxys
T. bovis 942	in tree holes, in Kenya 2876	control of 2525
T. lawrencei 937, 942	in water containers, in Nigeria 2895	insecticides for 2820
T. mutans 499, 936, 942, 2474, 3060	Stegopterna	in South Africa 2139
T. parva 698, 936, 942, 1722, 1940,	control of, biological 3313	on cattle
2215, 2225, 3075, 3089	in streams, in Newfoundland 3313	in Timor 2820
T. sergenti 936	maxillary sensilla in 3309	in Wyoming 2525
T. taurotragi 709, 942	Stegopterna mutata (see Cnephia mutata)	on zebu, in Malaysia 2538
T. velifera 942, 3060	Steinernematidae, in, insects, book 1134	Trypanosoma spp. in, transmission of
Spotted-fever rickettsiae		1303
-,	stellifer, Culicoides	
In Description and description Mantage	Stempellia, in, Tabanidae, in USSR 1020	wings in, morphometric characters of
Dermacentor andersoni, in Montana	Stempellia captshagaica, in, Aedes spp., in	1352
3065	Ukraine 1025	Stomoxys calcitrans
D. marginatus, ultrastructure of 932	Stenepteryx hirundinis (see Crataerina	autogeny in 2447
D. variabilis	hirundinis)	breeding places of 904, 3352
in New York 278	Stenistomera, taxonomy of 1750	chromosomes in 450, 3370
in Ohio 234	Stenolophus comma, in USA 415	control of 199
dog, in New York 278	Stenoponia tripectinata, ovarian	behaviour modification for 2447
Hyalomma dromedarii, ultrastructure of	development in 2328	biological 367, 1090
932	Stenoponia tripectinata insperata, in	genetic 2447
Ixodes ricinus	Morocco 3183	growth regulators for 656, 2438
in Lithuania 3399	stenopsis, Linognathus	insecticides for 223, 2446, 3048
sexual transmission of 2741	stenosinuata, Geusibia	sterile-insect release for 1090

in California 1737

superpictus, Anopheles

subpictus, Anopheles Stomoxys calcitrans contd. Streams Dermatophilus congolensis in, transmission of 777 Bacillus thuringiensis in, non-target effects subrostratus, Felicola subsimilis, Tabanus of 1854 development in, effects of temperature on Culex johni in, in Venezuela subtibbelesi, Prosimulium (Twinnia) Culicidae in, in Missouri 3211 subtibbelesi, Twinnia (see Prosimulium 1110 Culicinae in, in Nigeria 602 Simuliidae in, in Poland 2391 diflubenzuron in subtibbelesi) effects on cuticle formation of 656 inhibition of DNA synthesis by 3367 not inhibiting chitin synthase 1901 subtilis. Pherbellia Simulium vittatum in, effects of suspended particles on 2397

Streams, forest, Anopheles saperoi in, in Ryukyu Islands 1217 Succinate dehydrogenase (see Dehydrogenase, succinate) Succinea elegans, parasitised by, Sciomyzidae, in France 1349 persistence of 2438 digestive enzymes in 2705, 3369 effects of trypsin inhibitor on 2437 enzymes in 1901, 2418, 3030, 3032 feeding behaviour 1908 Streams, montane
Simulium spp. in, in France 426
Tabanus cordiger in, in German Federal
Republic 469 Succinea putris, parasitised by, Pherbellia punctata 2198 Succinic acid (see Butanedioic acid) Sucrose (see \alpha-D-Glucopyranoside, \beta-Dglycerides in, incorporation of glucose into Streblidae fructofuranosyl) 3028 adaptive radiation in 2308 Suctarsonemus, on cattle, in Mexico 1462 hemolysins in 892 in Australia 1363 in Brazil 1908 on bats, in Karnataka Sudan bluetongue in 1520
Cladotanytarsus lewisi in 2192
on man 1596
Culicoides kingi in, nematodes in
Demodex canis in, on dog 3418
Hemiptera in 2016 Strelkovimermis peterseni in Bulgaria 902 in France 223 Anopheles punctipennis, in New York State 1531 1841 in Mexico 1131 A. stephensi, not infective 1531 Culex territans, not infective 1531 in UK 3048 in USA 367, 904, 2723, 3352 in Virgin Islands 1090 strenua, Hylemya leishmaniasis in 634 Streptococcus faecalis Phlebotominae in 634 in cattle farms Simulium griseicolle in, nematodes in in Bulgaria 902 in Florida 367 Blatta orientalis, in UK 3157 Rhyzopertha dominica 1633 1841 Sugar-cane (Saccharum officinarum) in decomposing Myriophyllum, in North Carolina 2723 Sugar-cane plantations, Stomoxys nigra in, sampling of 3036 Streptococcus gallinarum Sugar-cane products, chlorpyrifos in, residues of 1802 Argas persicus, in Pakistan 247 poultry, pathogenicity of 247 Streptomyces culudicus, against, Culicidae, in rice-fields 1827 in green fodders, in Florida 3352 in silage, in Florida 3352 Sugar-cane straw, insecticides on, persistence insect growth regulators in of 203 bioassay for 452 Streptomycin, in Periplaneta americana, reducing susceptibility to carbaryl Sugars not inhibiting chitin synthase 3032 bait component for Malpighian tubules in, phosphate striata, Euschoengastia (Leptotrombidium) Cochliomyia hominivorax 1132, 2169 retention in, sex differences in striatulus, Drepanocerus Musca domestica 3017 in Dermacentor andersoni, developmental changes in 1400 in Sarcophaga argyrostoma diet, required for ovarian development 476 Suidasia medaneasis (see S. pontifica) moulting hormones in, activity pattern of striatum, Leptotrombidium (see 2418 Euschoengastia striata) on cattle Strobiloestrus on cattle, in South Africa 1341 taxonomy of 1338 effects on milk production of 1131 in France 223 in UK 3048 Strobiloestrus erikssoni, taxonomy of 1338 Strobiloestrus vanzyli descriptions of 1338 Suidasia pontifica in Mexico 1462 increasing susceptibility to Moraxella bovis 2200 bovis 2200 on horse, in Brazil on cattle, in Mexico 1462 suilla, Scathophaga 1908 eggs of, attachment organ of 3333 oogenesis in 1612 in Zambia 1338 suis, Haematopinus on Kobus leche, in Zambia 1338 taxonomy of 1338 suis, Sarcoptes (see S. scabiei) suis, Sarcoptes scabiei (see S. scabiei) parasitised by, Siteroptes queenslandicus, in Queensland 1363 pathogens of, bibliography 2517
physiological age of, determining of 1
population age-structure in 1908
reproductive system in 658
sterilisation of, y-irradiation for 1090 Strongylidae, in, pig, in German Federal Republic 1959 sulcata, Haemaphysalis suicata, Haemaphysails
sulcifrons, Tabanus
Sulfadoxine (4-amino-N-(5,6-dimethoxy-4pyrimidinyl)benzenesulfonamide)
in Anopheles stephensi, effects on
Plasmodium berghei of 90
Sulfaphenazole (4-amino-N-(1-phenyl-1Hpyrazol-5-yl)benzenesulfonamide)
in Glossina palnalis effects on 1610 Strongyloides, in, pig, in German Federal Republic 1959 Structural wood, insecticides in, persistence Stomoxys nigra biology of 224, 444 control of of 2039 Stubble burning, Ixodidae as affected by 3411 biological 224 in Glossina palpalis, effects on insecticides for 203, 224 arthropod parasites of, in Kirghizia 1033 reproductive system of 2684 sterile-insect release for 444 development in, effects of temperature on bacteria in, in Kirghizia 1033 Sulfate, in Simulium breeding water 2666 Sulfidophos (see Fenthion)
Sulfur, in Anopheles fluviatilis, relation of
DDT resistance and 2926
Sulfuric acid, disodium salt, for inducing Sturnus vulgaris, Ceratophyllus gallinae on, in Scotland 2341 1110 stygia, Calliphora flight activity in, effects of γ -irradiation on 444 Stylocystis praecox egg-hatch in Aedes sierrensis
Sumifly (see Fenvalerate) in Mauritius 224, 444, 3036 in in sugar-cane plantations, sampling of Conchapelopia melanops, in Poland Sumithion (see Fenitrothion)
Sumithrin (see Phenothrin, (1R-cis,trans)-) mating competitiveness in, effects of y-Natarsia punctata, in Poland 679 irradiation on 444 life history of 679 summorosus, Culex tritaeniorhynchus (see population density of, estimating of 3036 seasonal abundance of 444 Stylopyga rhombifolia (see Neostylopyga C. tritaeniorhynchus) rhombifolia) Suncus murinus styx, Ceratophyllus subakamushi, Chiroptella (Trombicula) subakamushi, Trombicula (see Chiroptella subakamushi) sterilisation of, y-irradiation for 444 Hoplopleuridae on, in Burma 1496 Leptotrombidium arenicola on, in Indonesia 2810

Mesostigmata on, in Burma 2775
Siphonaptera on, in Java 817, 2819
sundaicus, Anopheles
sundewalli, Elgiva Stored products, insect pests of, reservoirs of 776 Stork, open-billed (see Anastomus oscitans) subalbatus, Armigeres subalpinus, Anopheles melanoon Storm drains Culex quinquefasciatus in, in California 2113 subangensis, Radfordia subansiriensis, Onthophagus mosquito control in, insect growth Sunfish, bluegill (see Lepomis macrochirus) regulators for 2113 subbadius, Macrocheles Supella longipalpa subcalifornicus, Geomydoecus subcylindrica, Haematopota subtasciipennis, Culicoides subgeomydis, Geomydoecus geomydis subimmaculatus, Culicoides subirrorata, Haematopota stramineus, Aedes stramineus, Eomenacanthus (see Menacanthus stramineus) stramineus, Menacanthus (Eomenacanthus) Strandius, in India 1629 biology of control of 788 biological 1737 insecticides for 788, 1737 traps for 1737 in Turkey 788 in USA 1737 Stratiomyidae Culicinomyces clavosporus in, not sublettei, Procladius pathogenic 1829 parasitised by, *Trichogramma* spp., in New York State 3373 pupae of 1348 submorsitans, Glossina morsitans parasitised by subobscurum, Leptotrombidium Comperia merceti

subochrea, Culiseta

subornatum, Simulium (see S. argyreatum)

· ·		
Suriname	tabani, Telenomus	Tabanus abactor contd.
Mitonyssus spp. in, on bats 2238	Tabanidae	daily activity in 3015
Ophthalmodex spp. in, on bat 1002	activity in 3034	in USA 1899, 3015
O. artibei in, on Artibeus 735	attractants for 1881	on cattle, distribution pattern of 1899
Psorergatoides spp. in, on bats 736 Pterodex carolliae in, on Carollia 1001	blood-feeding in 1358 effects on life-span of 1921	Tabanus abdominalis, taxonomy of, characters distinguishing T. sulcifrons
Tunga penetrans in, on man 2865	Coelomomyces milkoi in, development of	and 1922
urinamensis, Psorergatoides	infection with 1065	Tabanus aranti
urra, in Philippines 2804	control of 2525	in USA 1597
sus scrofa domestica (see Pig)	insecticides for 223	taxonomy of, misidentified as T.
suslik, European (see Citellus citellus)	Culicinomyces clavosporus in, not	nigrescens atripennis, in Florida 1597
wallow, bank (see Riparia riparia) wallow, cliff (see Petrochelidon	pathogenic 1829 Dermatophilus congolensis in,	Tabanus argenteomaculatus in USSR 205
pyrrhonota)	transmission of 777	on cattle, in Tadzhikistan 205
wamps	fungi in, in USSR 3336	Tabanus atratus
Anopheles subpictus in, in Indonesia	hosts of, visual selection of 1376	blood-meals in 1899
endosulfan in, non-target effects of 2163	in Belgium 449	daily activity in 3015
sweating sickness, in cattle, caused by	in California 2444 in Czechoslovakia 189	in USA 1899, 1906, 3015 in salt marshes, in Massachusetts 1906
Hyalomma truncatum 246	in Luxembourg 449	on cattle, distribution pattern of 1899
weden	in Nearctic region, book 2587	Tabanus autumnalis
Bezzia spp. in, natural enemies of 2653	in Netherlands 449	feeding behaviour in 1078
Rhipicephalus sanguineus in, on dog 3400	in Nigeria 2003	in USSR 1020, 1078, 2694, 2695, 3336
Sarcoptes scabiei in	in Norway 1907 in Philippines 2804	Microsporida in, development of infection with 1020
on man 1673	in Portugal 451	on livestock, in Ukraine 1078
on pig 1661	in South Africa 2139	Pheromermis tabani in, in Crimea 2695
Speleorodens clethrionomys in, on golden	in Soviet Far East 3348	P. vernalis in, in Crimea 2695
hamster 1656	in Spain 451	Tabanomyces milkoi in, in Ukraine 3336
weep net, formula for volume sampled by 1456	in Tajikistan 205, 1616 in Tennessee 661	Tabanus autumnalis brunnescens biology of 1604
wine (see Pig)	in Ukraine 1024, 1079	Coelomomyces milkoi in, in Uzbekistan
witzerland	in USSR 2692	445
Cheyletus tenuipilis in, in house dust 300	in Uzbekistan 1070	in USSR 445, 1604, 3336
Culicidae in 3215	in West Malaysia 2808	Metarhizium anisopliae in
Lucilia sericata in, on sheep 471 Lyctocoris campestris in, on man 564	Microsporida in, in USSR 1020 nectar-feeding in 1358	development of infection with 1065 in Uzbekistan 445
Pediculus capitis in, on man 1174	on cattle	Paecilomyces varioti in, in Uzbekistan
P. humanus in, on man 1174	effects on productivity of 1521	3336
Pthirus pubis in, on man 1174	in Alberta 1287	Tabanomyces milkoi in, in Uzbekistan
Sarcoptes scabiei in, on pig 999 Swormlure-2	in France 223	3336 Tahanya hifarina araya of kay 3340
attractant for	in German Federal Republic 465 in Wyoming 2525	Tabanus bifarius, group of, key 3340 Tabanus biguttatus
Cochliomyia hominivorax 1132, 2429	on horse	in South Africa 2716
C. macellaria 2429	defensive activity against 3034	preying on, Tipula pomposa, in South
bait component for, Cochliomyia	effects of host group size on 2185	Africa 2716
hominivorax 2169	in France 3034	Tabanus bovinus
Cochliomyia hominivorax responses to 1896	on livestock, in Ukraine 1078 parasitised by, <i>Trichogramma</i> spp., in	feeding behaviour in 1078 in France 223
wynnertoni, Glossina	New York State 3373	in USSR 1078, 2694
ycoracinae, in Colombia 2661	pathogens of	on cattle, in France 223
ycorax	bibliography 2517	on livestock, in Ukraine 1078
in Colombia 2661	in USSR 3040	Tabanus bromius
taxonomy of 2661 ylvestris, Cricotopus	physiological age of, determining of 2874 preyed on by	activity in 2409 control of, repellents for 3230
ylviarum, Liponyssus (see Ornithonyssus	Bembix spp., in Tajikistan 1617, 3347	diurnal activity in 189
sylviarum)	Vespula germanica, in Tajikistan 3347	feeding behaviour in 1078
ylviarum, Ornithonyssus (Liponyssus)	pupae of 1348	in Czechoslovakia 189, 3230
Sylvicapra grimmia, Ixodes donarthuri on,	reservoir construction as affecting 2694	in USSR 156, 1078, 2409, 2693, 2694
in Mozambique 1404 ylvicola, Diglochis	sugar-feeding in, effects on life-span of 1921	Neoaplectana tabanivora in, in Ukraine 2693
Sylvilagus	thorax in 3042	on cattle, in Czechoslovakia 3230
Cediopsylla spp. on 2335	Trypanosoma spp. in, transmission of	on livestock, in Ukraine 1078
Odontopsyllus spp. on 2335	1303	parasitised by, Diglochis terteriani, in
Sylvilagus floridanus arthropod parasites of, in USA 1155	T. brucei in, transmission of 644 T. evansi in, transmission of 184	Armenia 156 seasonal abundance of 189
Connecticut virus in, antibodies to 1408	Tabaninae	Tabanus cordiger
ectoparasites of, in Indiana 3145	in West Palaearctic region 3340	descriptions of 469
Haemaphysalis leporispalustris on,	taxonomy of 3340	habitats of 469
resistance to 492	tabanivora, Trichopria	in German Federal Republic 469
Linguatula serrata on, in USA 1679	Tabanomyces milkoi in	Tabanus darimonti distribution of 3368
Rickettsia rickettsi in, infectivity of 966	Chrysops relictus, in Ukraine 3336	in France 3368
Sylvilagus nuttallii, Rickettsia rickettsi in,	Tabanus autumnalis	Tabanus equalis
infectivity of 966	in Ukraine 3336	blood-meals in 1899
Symphyta, taxonomy of, types in Cornell	in Uzbekistan 3336	daily activity in 3015
University collection 3387 Syncerus caffer (see Buffalo, African)	T. golovi, in Uzbekistan 3336 Tabanus	in USA 1899, 3015 on cattle, distribution pattern of 1899
ynnomus, Laelaps	feeding behaviour in 2443	Tabanus fuscicostatus
ynthase, chitin (see Acetylglucosaminyltra-	hosts of, visual selection of 1376	flight activity in 2440
nsferase, chitin-uridine diphosphate)	in Norway 1907	in USA 2440
ynthetase, methenyltetrahydrofolate, in	in Soviet Far East 3348	in hardwood forests, in Louisiana 2440
Aedes aegypti, properties of 838	in USSR 2692, 3040 in Uzbekistan 1070	Tabanus gladiator , taxonomy of, characters distinguishing <i>T. sulcifrons</i> and 1922
Anopheles sacharovi in 2127	in decomposing Myriophyllum, in North	Tabanus golovi
A. stephensi in 2127	Carolina 2723	in USSR 3336
malaria in 2127	in hardwood forests, in Louisiana 2440	Tabanomyces milkoi in, in Uzbekistan
Syringa vulgaris (see Lilac)	on cattle, in Connecticut 2443	3336 Tabanus golovi pallidus
syrphidae Culicinomyces clavosporus in,	on zebu, in Malaysia 2538 Pasteurella tularensis in, transmission of	biology of 1604
pathogenicity of 1829	1380	in USSR 1604
fenethacarb in, toxicity of 1530	Tabanus abactor	Tabanus hissaricus
in Azerbaijan 899	blood-meals in 1899	in USSR 205

1053

1194

Tanvtarsus

Tabanus trimaculatus Tabanus hissaricus contd. control of on man, in Tadzhikistan 205 daily activity in 3015 in USA 3015 growth regulators for 1366, 2412 Tabanus humilis, in Japan 1373 insecticides for 2413 tabu, Aedes tongae Tabanus hyugaensis, in Japan 1373 emergence in 1905 in Florida 1366, 1905 Tacaiuma viruses, antigenic relationships Tabanus iyoensis group of among 2949 in Japan 1373 Tachinidae, parasitised by, Dirhinus spp., in in flood-control systems, in California medical importance of 1373 Indian subregion 3056 2413 tachinoides, Glossina Tabanus kotoshoensis, in Japan 1373 in rice-fields, effects of fertilizers on Tabanus laetitinctus sordes Tachycardia, in guinea-pig, caused by 1624 Tanzania in USSR 205 Leiurus quinquestriatus venom on cattle, in Tadzhikistan 205 on man, in Tadzhikistan 205 Amblyomma lepidum in 703 Tadarida condylura A. variegatum in 703
Anopheles gambiae in, on man 1836
A. merus in, on man 1836
Chrysomya chloropyga in, in latrines
2928 Notoedres ovatus on, in Uganda N. tadaridae on, in Uganda 283 Tabanus lineola abdominal musculature in 2181 Tadarida pumila control of, traps for 1906 flight activity in 2440 in USA 1906, 2440 Araeopsylla faini on, in Rwanda 3181 Notoedres tadaridae on, in Uganda 283 Culex quinquefasciatus in 2366 tadaridae, Notoedres in latrines 2928 Taenia saginata Diptera in, in zoological gardens 3189
Glossina morsitans in 762, 2679
G. pallidipes in 2679
G. swynnertoni in 1328
Ixodoidea in 951
malaria in 3195 in hardwood forests, in Louisiana in salt marshes, in Massachusetts eggs of, insect dispersal of 123 population dynamics of 1906 Aphodius fimetarius, transmission of traps for 1906 Tabanus maculicornis control of, repellents for 3230 488 A. fossor, transmission of 488 in Czechoslovakia 3230 on cattle, in Czechoslovakia Tabanus masamitsui, in Japan Tabanus miki, in USSR 2694 Paederus sabaeus in, on man Sphaeridium scarabaeoides, transmission Siphonaptera in, on rodents 2030 sleeping sickness in 1871

Tapeworm (see Cestoda) of 488 1373 Taeniarhynchus saginatus (see Taenia saginata) tarandi, Oedemagena Tabanus mularis taeniopus, Culex blood-meals in 1899 tarnogradskii, Simulium taeniorhynchus, Aedes daily activity in 3015 in USA 1899, 3015 on cattle, distribution pattern of 1899 Taro (see Colocasia) Tagetes erecta, insecticidal activity of extracts of 3127 tarsalis, Culex Tarsonemidae, in mammal nests, in USSR Tagetes patula, insecticidal activity of 1053 Tabanus nefarius, taxonomy of, characters distinguishing T. sulcifrons and 1922 extracts of 3127 Tarsonemina, in house dust, in Denmark Ťahyňa virus 287 Tabanus nigrescens atripennis, taxonomy of, foci of 1560 Tabanus aranti misidentified as, in Florida 1597 Tarsonemus, in house dust 1479
Tarsonemus floricolus in Tabanus nigrovittatus blood-feeding in 185 control of, traps for 1906 in Canada 2197 in USA 1603, 1906 Aedes caspius, in Czechoslovakia 1560 in Denmark 287 A. vexans, in Czechoslovakia 1560 in house dust, in Denmark Culicidae, transmission of 3215 Tarsonemus talpae, in USSR Tarsopsylla octodecimdentata coloradensis Aedes aegypti in, natural enemies of 1215 in USA (Alaska) 1187 in salt marshes, in Massachusetts 1906 oogenesis in 185 on Perisoreus canadensis, in Alaska 1187 tartakovskyi, Alectorobius (see Ornithodoros tartakovskyi) A. albopictus in, natural enemies of 1215 A. alcasidi in, natural enemies of 1215 Anopheles takasagoensis in, on man 2070 oviposition in 185 parasitised by, *Trichopria* spp., in Connecticut 1603 tartakovskyi, Ornithodoros (Alectorobius) tartara, Shelfordella taschenbergi, Leptopsylla Armigeres subalbatus in, natural enemies of 1215 physiological age of, estimating of 185 population dynamics of 1906 traps for 1906 Tasmania Culex quinquefasciatus in, viruses in arthropod pests in 533, 1720 arthropod pests in 533, 1720
sheep in, fly control on 163

Tatera indica, Listrophoroides pakistanicus
on, in Pakistan 2772

Tatera nigricauda, Xenopsylla spp. on, in
Kenya 1513

Taurine (see Ethanesulfonic acid, 2-amino-) Tabanus otsurui, in Japan 1373 2032 Tabanus proximus C. tritaeniorhynchus in, viruses in 2032 C. vishnui in, viruses in 2032 Culicidae in 2349 oviduct in effects of proctolin on 3341 effects of serotonin on 3341 natural enemies of 2031 Periplaneta americana in 3161 Tabanus pungens taurus, Onthophagus
Taxonomy, role in applied entomology of distribution of in USA 1597 1597 taiwana, Forcipomyia takasagoensis, Anopheles Taktic (see Amitraz) Tabanus quinquevittatus in USA 661 2268 taylori, Aedes taylori, Schoengastia Talpa europaea, Eadiea brevihamata on in damp pastures, in Tennessee 661 2236 Tabanus regularis talpae, Dubininetta (Lynxacarus) Teak plantations Aedes aegypti in, in Nigeria in France 223 talpae, Hirstionyssus A. africanus in, in Nigeria 1194 on cattle, in France 223 talpae, Hystrichopsylla talpae, Lynxacarus (see Dubininetta talpae) talpae, Tarsonemus Tamias striatus Tabanus reinwardtii, in Canada 2197 **Techniques** Tabanus rupium automated assay for acetylcholinesterase descriptions of 217 in France 217, 659 parasitised by, Scelionidae, in France 1448 bioassay of pesticides, review 1455 fluorometric analysis of ecdysteroids Aplodontopus sciuricola on, in Rhode Island 922 Haemaphysalis leporispalustris on, in for analysing dimethylalkanes in insect cuticular wax 2277 Tabanus sapporoensis, in Japan 1373 Canada 720 for assessing mating in Musca domestica 754 Tabanus schiva Ixodes dammini on, in Connecticut 248 in USSR 205 Tamiasciurus douglasii, Chatia on cattle, in Tadzhikistan 20 on man, in Tadzhikistan 205 cunninghamae on, in Washington State for blood-feeding of insects 3249 for clearing and mounting mites 1064 3095 Tabanus spectabilis
in USSR 205
on cattle, in Tadzhikistan 205
Tabanus subsimilis Tamiopsochirus, taxonomy of, synonym of Metalistrophorus 2770
Tamiopsochirus lukoschusi, taxonomy of, for collecting venom from spiders for counting microfilariae ingested by mosquitoes 2909 transferred to Pteromychirus 27.

Tanyderidae, palpal sensilla in 3309 for cultivating insect cell lines in roller bottles 1997 day and the state of the state for detecting Babesia in ticks 1109 for detecting Trypanosoma in Glossina Tanypodinae emergence in 19 in Florida 1905 1905 1312 parasitised by, Arrenurus spp., in West Germany 468 Tabanus sulcifrons blood-meals in 1899 for detecting trypanosomes in vectors Germany 468
Tanypus, in California 670 813 descriptions of 1922 in USA 1899, 3015 on cattle, distribution pattern of 1899 for determining esterase in Culicidae 3281 Tanypus grodhausi control of, insecticides for 3346 in USA 3346 for determining insecticide susceptibility of Culicidae 2645, 3219, 3220 for determining insecticide susceptibility of Simuliidae 2675 oviduct in 3341 in flood-control channels, in California taxonomy of, lectotype for 1922

in fish, residues of 1691

echniques contd.	Temephos contd.	Tetrahymena, in, Simulium spp., in Ivory
for determining low levels of pesticides, conference 2260	in flea collars 2028	Coast 429
for determining physiological age of	in rivers, non-target effects of 1691 resistance to, in	Tetramethrin ((1,3,4,5,6,7-hexahydro-1,3-dioxo-2 <i>H</i> -isoindol-2-yl)methyl 2,2-
blood-sucking Diptera 2874	Anopheles albimanus, in El Salvador	dimethyl-3-(2-methyl-1-
for determining susceptibility of Culicidae	1816	propenyl)cyclopropanecarboxylate)
to insect growth regulators 2890	Culex pipiens 2604	against
for estimating mites in house dust 1956	in Italy 772	Culex molestus 401
for evaluating control agents for Simuliidae 2396	C. quinquefasciatus 1221 development and loss of 2110	C. pipiens 2604 Musca domestica 1893
for evaluating systemic acaricides against	genetics of 2104	Panstrongylus megistus 1507
ticks 974	in Uttar Pradesh 608	Rhipicephalus sanguineus, in dwellings
for identifying <i>Glossina</i> blood-meals 3322	mechanisms of 2104	965
for identifying mite blood-meals 1954	Procladius spp., in California 2413 Simulium sanctipauli, in Ivory Coast	on walls, persistence of 401
for isolating arboviruses in mosquito cell	433, 2678	with piperonyl butoxide, antagonistic 1507
lines 2950	S. soubrense, in Ivory Coast 433, 2678	(1R-cis)-, in Periplaneta americana,
for isolating pigment granules from insect eyes 2448	Temperature, blood-feeding insects as affected by 2283	neurotoxicity of 3435
for measuring heat production by active	Tenebrio, tracheoles in 2835	(1RS-trans)-, in Musca domestica,
insects 1027	Tenebrio molitor	poisoning by 207
for measuring ingestion of bacteria by	enzymes in 2795	(1R-trans)-, in Periplaneta americana, neurotoxicity of 3435
mosquito larvae 2892 for measuring insect flight parameters	Hymenolepis diminuta in effects of temperature on 1390	Tetranychidae, predation of, model 1369
2423	effects on water balance of 1390	Tetrastes bonasia, Haemaphysalis japonica
for measuring size of mosquito blood-	in USA 2582	on, in Maritime Territory 2734
meals 2909	in bat dung, in Massachusetts 2582	Tetrastichus hagenowii
for measuring toxicity of insecticides in baits 528	Tenebrionidae, helminths in, in Uzbekistan 316	antennae in, sensilla on 3159 Blattella germanica not parasitised by
for preparing Beauveria for SEM 1687	tenebrosus, Anopheles	2550
for preparing mites for SEM 2768	tengchongensis, Herpetacarus	host specificity in 2550
for relaxing insects 2515	Tennessee	mating in 334, 1739
for remounting mite preparations 2485 for screening chitin synthesis inhibitors	Anoplura in, on Sciurus 1189 Culex spp. in 2074, 2944	oviposition in 334, 1739 parasitising
452	C. pipiens in 2914	Blatta orientalis 2550
for screening potential insecticides 1682	C. quinquefasciatus in 2914	Periplaneta americana 334, 1739, 2550
for staining smears of insect hemolymph 2513	Nearctopsylla pfitzeri in, on Blarina 2867	tetratoma, Trichopria (see T. oxygaster)
for standardising allergen preparations	Orchopeas howardii in, on Sciurus 1189	texanus, Geomylichus texanus, Ixodes
3106, 3107	Tabanidae in 661	Texas
for stimulating pheromone release by	tenorioae, Ophthalmognathus	Aedes aegypti in 2133
insects 2270 for visualising lipids in electron	Tonutov (see DDT with disulfirem and	cattle dung in, control of 1932
microscopy 2861	Tenutex (see DDT, with disulfiram, and phenylmethyl benzoate)	Cochliomyia hominivorax in 1919, 2169 Culex quinquefasciatus in 2913
indicator activation method for marking	teongwahi, Whartonia	Demodex cati in, on zoo Uncia uncia
Glossina 2681	Tepa (1,1',1"-phosphinylidynetris[aziridine])	2234
comanus, Centruroides limpidus Celenomus, parasitising, Tabanidae, in New	vapour pressure of 2272 Tephritidae , parasitised by, <i>Dirhinus</i> spp., in	D. zalophi in, on zoo Zalophus californianus 2228
York State 3373	Indian subregion 3056	Geomydoecus spp. in, on Thomomys
Telenomus fariai	teres, Ctenophthalmus	1171
in Bolivia 1474	Termeil virus, in, Culicidae, in New South	G. guadalupensis in, on Thomomys 2849
in Brazil 42 parasitising	Wales 2033 terraenovae, Phormia (Protophormia)	G. heaneyi in, on Geomys 33 Haematobia irritans in, on cattle 3010
Triatoma infestans, in Bolivia 1474	terraenovae, Protophormia (see Phormia	Hybomitra lasiophthalma in 906, 2431
T. sordida, in Bolivia 1474	terraenovae)	natural enemies of 907, 2167
Triatominae, in Brazil 42 Felenomus kurentzovi	Terramycin (see Oxytetracycline)	Hypoderma lineatum in, on cattle 441
in USSR 2178	territans, Culex terteriani, Diglochis	Psorophora columbiae in, in rice-fields
variability in 2178	tescorum, Simulium	Psoroptes ovis in, on cattle 3427
elenomus oophagus	tesquorum, Ceratophyllus (see Citellophilus	Solenopsis invicta in 1628, 2730
in USSR 2178 variability in 2178	tesquorum) tesquorum, Citellophilus (Ceratophyllus)	Tabanus pungens in 1597 Thrassis fotus in, on Spermophilus 1753
Telenomus tabani	tessellatus, Anopheles	Triatoma gerstaeckeri in, flagellates in
in USSR 2178	Tetanocera, parasitised by, Trichogramma	349
variability in 2178	spp., in New York State 3373	T. sanguisuga in, flagellates in 349
'emephos (O,O'-(thiodi-4,1-phenylene) bis(O,O-dimethyl phosphorothioate))	Tetrachlorvinphos ((<i>Z</i>)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl	Tyrrelliidae in 629 Textiles
against	phosphate)	arthropod pests of, book 322
Aedes spp. 1822	against	permethrin in, persistence of 2516
A. aegypti 115	Glossina swynnertoni 1328	pest control in, book 7
A. vexans 2040 Anopheles spp. 3194, 3200, 3267	Haematobia irritans, on cattle 1367, 1915, 3010	TH-6040 (see Diflubenzuron) Thailand
A. culicifacies 3218	Musca autumnalis, on cattle 1915	Aedes aegypti in, on man 82
A. sacharovi 76	M. domestica 773	A. albopictus in, on man 82
Chironomidae 3346	Ornithonyssus sylviarum, on fowl	Anopheles spp. in 96, 2904
Chironomus spp., in flood-control systems 2413	in building materials, persistence of 773	Argas robertsi in, on Anastomus 2815 Calliphoridae in 662
Ctenocephalides felis, on dog 2028	in cattle	Culex pipiens in 2945
Culex pipiens 772, 1822, 2040	excretion of 1451	C. quinquefasciatus in 2945
C. quinquefasciatus 608, 2353, 3269	metabolism of 1451	ectoparasites in 2805
in pig waste 374 in storm drains 2113	in cattle ear tags 1367, 3010 resistance to, in	Ixodoidea in 2809 mites in 2809
C. restuans 1822	Musca domestica 1347	Pthirus pubis in, on man 2814
Culicidae 1709, 3209	development of 1893	Schoengastia spp. in, on Rattus 513
Culicoides molestus 3302 C. occidentalis 2385	Tetracycline, in <i>Periplaneta americana</i> , reducing susceptibility to carbaryl 2505	Whartonia dewitti in, on Rhinolophus 730
Mansonia annulifera 2057	Tetradecanamide, N,N-dimethyl-	Thaumaleidae, palpal sensilla in 3309
M. uniformis 2057	against	Thea sinensis (see Tea)
Simulium spp. 1704, 2672	Culex quinquefasciatus 2107	theileri, Culex
S. incrustatum, in rivers 3317 Tanytarsus spp., in flood-control	Psoroptes spp. 998 formulations of, emulsifiable concentrates	Theileria control of, vector control for 943
austoma 2412	2107	development in effects of vector enducin

Tetradonematidae, in, insects, book 1134

on 276

Theileria contd.	I neionania fibrata conto.	Inrush, garden (see Turdus nortulorum)
in	in contd.	Thrush, Naumann's (see Turdus naumanni)
cattle	Simulium spp., in German Federal	Thrush, pale (see Turdus pallidus)
and in wild bovids 1722	Republic 1268	thummi, Chironomus (see C. riparius)
	Thelohania minuta (see Amblyospora	Thylogale brunii, Schoengastia bicoxalae on,
in southern Africa 942		
in Spain 3078	minuta)	in Papua New Guinea 3426
goat, in Egypt 2756	Thelohania obesa (see Parathelohania obesa)	Thyreophagus entomophagus, taxonomy of,
Ixodoidea, transmission of 953	Thelohania opacita (see Amblyospora	characters distinguishing T. gallegoi and
Rhipicephalus appendiculatus,	opacita)	1971
transmission of 942	Thelohania solenopsae, in, Solenopsis spp.,	Thyreophagus gallegoi
sheep, in Egypt 2756	in Brazil 1627	sp. nov., description of 1971
Theileria annulata	Thelohania varians	
		in Spain 1971
control of, immunization for 944	in	in flour, in Spain 1971
development in, effects of vector ecdysis	Simuliidae, in Ukraine 1059	in house dust, in Spain 1971
on 276	Simulium spp., in German Federal	Thyroxine (see L-Tyrosine, O-(4-hydroxy-
in	Republic 1268	
		3,5-diiodophenyl)-3,5-diiodo-)
cattle, in Africa 936	Theobromine (see 1H-Purine-2,6-dione, 3,7-	Thyrsocnema incisilobata (see Sarcophaga
Hyalomma anatolicum, enzymes in	dihydro-3,7-dimethyl-)	
3077	Thermocyclops infrequens nigerianus, in	incisilobata)
H. detritum, transmission of 962	Nigeria 637	Thysanoptera, mounting media for 1149
		thysanota, Genoneopsylla
taxonomy of 936	Thesauri, veterinary science 1990, 1991,	
vectors of 936	1992, 1993, 1994	Tiamastus, on Rodentia, in Argentina 357
Theileria bovis, in, cattle, in southern Africa	Thiirane, 2,2-dimethyl-3-[3-methyl-5-(4-	tibetensis, Haemaphysalis
942	methylphenoxy)-3-pentenyl]-, not active	tibiamaculata, Triatoma
Theileria lawrencei	as insect growth regulator 1988	Tibrogargan virus
in	Thiocyanic acid, 2-(2-butoxyethoxy)ethyl	in
cattle	ester, against, Culicoides occidentalis	Asian buffalo, antibodies to 3303
	2385	
in southern Africa 942		cattle, antibodies to 3303
in Zimbabwe 937	Thiodan (see Endosulfan)	Culicoides brevitarsis, in Queensland
Theileria mutans	Thiodicarbonic diamide ([(H ₂ N)C(S)] ₂ S),	3303
development in, effects of vector ecdysis	tetraethyl-, against, Knemidokoptes	
		Tick (see Ixodoidea)
on 276	pilae, on budgerigar 1663	Tick-borne encephalitis (see Encephalitis,
in	Thiomuscimol (see 3(2H)-Isothiazolone, 5-	tick-borne)
African buffalo, in East Africa 2474	(aminomethyl)-)	
Amblyomma spp., transmission of 942	Thioperoxydicarbonic diamide	Tick infestations
		in Asian buffalo 2752
A. gemma, transmission of 2474	$([(H_2N)C(S)]_2S_2)$, tetraethyl- (see	in Bos indicus \times B. taurus 258, 259,
A. variegatum	Disulfiram)	
development of 499	Thiotepa (1,1',1"-phosphinothioylidynetris[a-	260, 1936, 3079
transmission of 3060	ziridine])	in Bos taurus \times B. indicus 961, 2742,
		3073
cattle	in Culex quinquefasciatus, duration of	
in Africa 936	sterilisation by 100	in camel 251, 2211, 2752
in southern Africa 942	in Periplaneta americana, effects on	in cat 3064
taxonomy of 936	ovaries of 1165	in cattle 16, 245, 246, 253, 258, 259,
vectors of 936	sterilant for	260, 700, 714, 937, 945, 946, 948, 952,
Theileria parva (see also East Coast fever)	Culex quinquefasciatus 100	959, 962, 964, 975, 1108, 1124, 1126,
im	Culicoides nubeculosus 3306	1395, 1401, 1411, 1460, 1635, 1640,
cattle	vapour pressure of 2272	1641, 1642, 1645, 1649, 1924, 1936,
in Africa 936	Thiourea	1938, 1939, 1943, 1948, 2211, 2212,
in southern Africa 942	in Sarcophaga ruficornis	2217, 2218, 2224, 2463, 2471, 2476,
mouse, development of 698	effects on glycogen synthesis in	2525, 2746, 2752, 2820, 2837, 3061,
	ovarioles of 1355	3068, 3072, 3073, 3078, 3079, 3085,
Rhipicephalus appendiculatus		
artificial infection with 2225	effects on reproduction of 2421	3089, 3393, 3394, 3415
culturing of 1940	Thiourea, N' -(4-chloro-2-methylphenyl)- N , N -	in dog 278, 533, 965, 1398, 1409, 1459,
detecting of 3089	dimethyl- (see Chloromethiuron)	1943, 2463, 2470, 3063, 3086, 3400
	thirouxi, Haematobia	in domestic animals 695
infectivity of, effects of γ-irradiation		
on 3075	Thirst, in pig, caused by Vespula 914	in donkey 2463, 3394
monitoring of 2215	Thogoto virus	in fowl 1493, 2211
transmission of 698, 1722	in	in game animals 1888
taxonomy of 936	Amblyomma variegatum, in Kenya	in goat 241, 265, 972, 2211, 2750, 2752,
vectors of 936	1641	2756, 3060, 3062, 3064
Theileria parva bovis (see T. bovis)	Hyalomma anatolicum, in Iran 1637,	in guinea-pig 3390
Theileria parva lawrencei (see T. lawrencei)	2211	in guineafowl 1493
Theileria sergenti		in livestock 18, 19, 1480, 2831
	tholloni, Amblyomma	
in, cattle, in Africa 936	tholozani, Alectorobius (see Ornithodoros	in man 269, 1398, 1942, 2316, 2463
taxonomy of 936	tholozani)	in mouse 3390
vectors of 936	tholozani, Ornithodoros (Alectorobius)	in mule 3064
Theileria taurotragi 942	Thomomys bottae	in partridge 3064
in, Rhipicephalus appendiculatus,	Geomydoecus spp. on 2854	in pig 16
development of 709	in North America 1171, 3164	in pigeon 2211
Theileria velifera	G. guadalupensis on, in North America	in rabbit 1939, 2214, 2869, 3390
development in, effects of vector ecdysis	2849	in sheep 320, 1410, 1641, 1939, 1948,
on 276	G. hueyi on, in California 31	2211, 2524, 2750, 2752, 3048, 3060,
in	G. shastensis on	3086, 3394, 3395
Amblyomma variegatum, transmission	in California 31	in zebu 259, 938, 2538
of 3060	in Oregon 31	Tick paralysis, in sheep, caused by
cattle, in southern Africa 942	Thomomys bulbivorus, Geomydoecus	Rhipicephalus evertsi 3395
Thelazia, in, cattle, increasing susceptibility	oregonus on, in Oregon 31	Tifatol (see Benzenamine, 2,4-dimethyl-N-
to Moraxella bovis 2200	Thomomys townsendii, Geomydoecus	(3-methyl-2(3H)-thiazolylidene)-)
Thelazia gulosa, in, Muscidae, in Dagestan	idahoensis on, in USA 31	Tigriopus, Coelomomyces opifexi in, mode
883	Thomomys umbrinus	of entry of 107
Thelazia skrjabini, in, Musca autumnalis, in	Geomydoecus spp. on 2854	Tilapia, preying on, Anopheles spp., and
Dagestan 883	in Mexico 1492	biological control using 3194
Thelohania	in North America 1171, 2849, 3164	
		Tilapia hornorum, preying on, Chironomus
in .	Thrassis fotus	decorus, and biological control using, in
Aedes spp., in Ukraine 1025	in USA 1753	California 670
Simuliidae, in Guatemala 144	on Spermophilus tridecemlineatus, in	Tilapia mossambica, preying on,
Thelohania bracteata (see Amblyospora	Texas 1753	Chironomus decorus, and biological
bracteata)	Yersinia pestis in, transmission of 1753	control using, in California 670
Thelohania fibrata	L-Threonine	Tilapia mossambica × hornorum, preying
in	in Anopheles stephensi, effects of	on, Chironomidae, and biological control
Simuliidae		
	Plasmodium berghei on 1199	using, in California 1911
in Guatemala 144 in Ukraine 1059	in Psoroptes cuniculi 2486	Tilapia nilotica, Bacillus thuringiensis in, not
	in Psoroptes ovis 2486	pathogenic 1797

Tilapia zillii	Toxaphene contd.	transiens, Parabyssodon (see Simulium
on Myriophyllum spicatum, and biological	resistance to, in, Boophilus microplus, in	
		transiens)
control using, in California 2345	South Africa 939	transiens, Simulium (Parabyssodon)
on Potamogeton pectinatus, and biological	Toxid (see DDT, with HCH)	transkaucasica, Formica
control using, in California 2345	Toxins	Transpermethrin ((3-phenoxyphenyl)methyl
Filligerry virus, in, Culicidae, in New South	Androctonus australis 742	
		(1RS-trans)-3-(2,2-dichloroethenyl)-2,2-
Wales 2033	A. mauretanicus 2253	dimethylcyclopropanecarboxylate)
l'im	Arctia caja 232	metabolism of, review 1445
against	Bacillus sphaericus 1537	transvaalicus, Parabuthus
Anopheles atroparvus 75	B. thuringiensis 197, 597	Trap
Culex molestus 75	Centruroides limpidus 522	for
Timbers, Dermestes maculatus in, damage	Latoia vivida 485	Corethrella 447
		dung-associated Coleoptera and phoretic
caused by 3057	Leiurus quinquestriatus 742	
immi, Geomydoecus	Tityus serrulatus 1677, 2780	mites 3380
Fin cans, Culicidae in, in Philippines 856	Toxoglugea, in, Anopheles culicifacies, in	Musca domestica 1360
Finaroo virus, in, Culicoides brevitarsis, in	Rajasthan 609	Tabanidae 1376
		Trap, awning screen skirt, for, Glossina
Queensland 862	Toxoglugea variabilis	pallidipes 2685
Tinolestes, taxonomy of 2903	sp. nov., description of 2653	
Tiphiidae, in British Isles 691	in, Bezzia spp., in Sweden 2653	Trap, bait
		for
Tipula pomposa	Toxorhynchites	Amblyomma americanum 604
in South Africa 2716	bibliography 1241	Cochliomyia hominivorax 1464, 2429
preyed on by, Tabanus biguttatus, in	biology of, review 3139	
		C. macellaria 2429
South Africa 2716	in Canada 1533	Culicoides spp. 1842
Fipulidae, chromosomes in 1995	in Philippines 856	Phlebotominae 2150
tiscadaea, Echidnophaga	in Soviet Maritime Territory 3264	Trap, biconical
Tithonia hedges, Glossina palpalis resting in,	in tree holes, in Kenya 2876	construction details for 1095
in Cameroon 1700	taxonomy of, types in US National	for
itillans, Haematobia thirouxi	Museum of Natural History 2943	Glossina spp. 150, 435, 1095, 1881,
itilians, Lyperosia (see Haematobia thirouxi	Toxorhynchites amboinensis	1883, 2989
titillans)	arboviruses in, infectivity of 589	G. morsitans 1861
itillatrix, Cephalopina	biology of 2124	G. pallidipes 3002
Tityus, in Argentina 1477	cell cultures from 589	G. palpalis 2986, 2987
Tityus serrulatus	dengue virus in, infectivity of 2883	G. tachinoides 2986, 2987, 2988
preyed on by, Camponotus abdominalis	Japanese encephalitis, virus in, infectivity	Trap, biconical electrocuting
3433	of 2883	description of 2983
venom of 1677, 2780	Nodamura virus in, pathogenicity of	for, Glossina spp. 2983
Tityus trivittatus charreyroni		Trap, box, for, Tabanus 1906
	1773	
descriptions of 2496	Saint Louis encephalitis, virus in,	Trap, Challier-Laveissière, for, Glossina spp.
taxonomy of 2496	infectivity of 2883	2996
Tityus trivittatus dorsomaculatus	Toxorhynchites brevipalpis	Trap, electric grid
descriptions of 2496	antennae in, sensilla on 827	for
taxonomy of 2496	egg size in 2044	Glossina 647
Tityus trivittatus fasciolatus	feeding behaviour in 1231	G. morsitans 2161
descriptions of 2496	in Kenya 54, 2876	Trap, electrocuting, for, Cricotopus spp.
taxonomy of 2496	in Pandanus rabaiensis axils, in Kenya	2413
Tityus trivittatus trivittatus	54	Trap, electrocutor, for, Glossina spp. 1881,
descriptions of 2496	in tree holes, in Kenya 2876	1882, 1883
taxonomy of 2496		
	life history of 2044	Trap, emergence
Foad, Ornithodoros spp. on, in Georgia	preying on	cattle-proof 2699
(USSR) 3408	Aedes aegypti 2044	description of 3252
FOCP (see Phosphoric acid, tris(2-	A. polynesiensis 1231	for
methylphenyl) ester)		Chironomidae 1905
	pupation in, predicting of 60	
Годо	Toxorhynchites rutilus rutilus	Culicidae 3252
Haemolaelaps spp. in 3422	adults of, transporting of 3226	Culicoides variipennis 1575
Simulium spp. in 1581, 1704	feeding behaviour in 1756	Haematobia irritans 2699
ogoi, Aedes	in USA 65	Trap, exit
Tokelau Islands	preying on	for
Aedes aegypti in 1833	Aedes aegypti 1756	Chrysomya chloropyga 2928
Culex quinquefasciatus in 1833	in Florida 65	Culex quinquefasciatus 2928
oledoi, Ornithocoris	seasonal abundance of 65	Trap, Langridge box screen, for, Glossina
Fomato (Lycopersicon esculentum)	Toxorhynchites rutilus septentrionalis	pallidipes 2685
Tomato (stored fruit), naled in, uptake from	egg size in 2044	Trap, Malaise
air of 2266	handling time in, evolution of 1242	for
Conate virus		
	in USA 1196, 1210	Glossina morsitans 1317
in	in tyres, in Ohio 1196	Tabanidae 3015
Oeciacus vicarius	life history of 2044	Trap, Manitoba, for, Hybomitra
in Colorado 1749	preying on	lasiophthalma 2431
in South Dakota 1749	Aedes aegypti 2044	Trap, oviposition
Petrochelidon pyrrhonota	A. triseriatus 1242	for
in Colorado 1749	pupae of 1210	Aedes aegypti 2133
in South Dakota 1749	Toxorhynchites splendens	A. simpsoni 591
Tonatia nicaraguae, Psorergatoides	biology of 2124	A. triseriatus 2902, 3280
surinamensis on 736	enzymes in 625	Trap, pipe
Fonga, Aedes spp. in 1236	TPP (see Phosphoric acid, triphenyl ester)	description of 590
ongae, Aedes	tracheacolum, Sternostoma	for, Culex tarsalis 590
Topomyia yanbarensis	Trachydosaurus rugosus	Trap, screen
Coelomomyces stegomyiae in, in Taiwan	Aponomma hydrosauri on	for
2031	development of 963	Glossina spp. 1696, 1697
in Taiwan 2031	mating by 1951	G. pallidipes 3002
orrentium, Culex	Trail pheromones	Trap, sex-attractant, for, Musca domestica
Fortoise, Ornithodoros spp. on, in Georgia	Blattidae 3163	3371
(USSR) 3408	Monomorium pharaonis 229	Trap, sticky
Fortoise burrows, Latrodectus spp. in, in	Transaminase, glutamic-oxaloacetic (see	adhesives for 2542
Uzbekistan 2778	Aminotransferase, aspartate)	description of 2971
ownsvillensis, Forcipomyia	Transaminase, glutamic-pyruvic (see	for
Foxaphene (chlorinated camphenes	Aminotransferase, alanine)	Blatta orientalis 2542
containing 67 to 69% chlorine)	transcaspica, Bembix	Blattella germanica 2542
against	Transferase, glutathione S-	Haematopota pluvialis 3338
Psoroptes cuniculi 2487	in Musca domestica	Phlebotominae 2971
P. ovis 2487	induction by phenobarbital of 3343	Simulium spp. 2152
in Buphagus erythrorhynchus, toxicity of	role in EPN resistance of 206	Tabanus 1906
1643	role in insecticide resistance of 1606	Trap, time-sorting, for, Scarabaeidae 2426

Triatominae contd.

Trap, truck

for	biology of 1474	in dwellings
Culicoides spp. 2143	blood-meals in, identification of 1506	in Brazil 807, 1137, 2299
C. phlebotomus 2387	control of 812, 3173	in Paraguay 3174
Trap, West Australian blowfly, for, Musca	insecticides for 560, 1745, 1746, 2018	parasites of, in Brazil 42
vetustissima 3035		pathogens in, modes of transmission of
	copulatory apparatus in, ectodermal gland	1001
Trap, wind-oriented, for, Cochliomyia	of 2298	1071
hominivorax 2434	descriptions of 1474	phagostimulants for 1471
trapezoidum, Leptotrombidium	domiciliarity in 1744	Trypanosoma cruzi in
travisi, Culicoides	enzymes in 35, 41, 1745, 3169	book 1504
tredecimguttatus, Latrodectus	heart in 2297	review 3138
Tree felling, Ixodidae as affected by 3411	in Bolivia 1474, 1744	transmission of 326, 3172
Tree holes	in Brazil 42, 811, 812, 1744, 2293, 2294,	Triazin red, marker for, Siphonaptera 360
Aedes daitensis in, in Ryukyu Islands	3167	1,3,5-Triazine-2,4-diamine, 6-azido-N-
2947	in Chile 3176	cyclopropyl-N'-ethyl-
A. detritus in, in France 3297	in dwellings, in Brazil 812, 2293, 2294	
A. nipponicus in, in Hokkaido 3271	light responses in 1123	against
A. oreophilus in, in Hokkaido 3271	Malpighian tubules in 1510, 2022	Fannia canicularis, in fowl dung 2423
A. sierrensis in, in California 2108	nutritional status of 2294	Musca domestica, in fowl dung 2428
A. triseriatus in, in Indiana 2902	on man, hypersensitivity to 3167	in fowl, residues of 2428
Ceratopogonidae in, in Spain 129	parasitised by, Telenomus fariai, in Bolivia	in fowl eggs, residues of 2428
Culex quinquefasciatus in, sampling of	1474	in Stomoxys calcitrans, not inhibiting
2116	parathion in	chitin synthase 3032
	esterase inhibition by 1745	1,3,5-Triazine-2,4,6-triamine, N-cyclopropy
Culicidae in, habitat segregation among		against
2876	metabolism of 3169	
Culicinae in, in Nigeria 602	population dynamics of 2293	Fannia canicularis, in fowl dung 2425
Lutzomyia trinidadensis in, in Venezuela	stridulatory groove in 3177	Lucilia cuprina, on sheep 169
632	Trypanosoma cruzi in	Musca autumnalis, in dung 2436
mites in nests in, in Austria 930	development of infection with 2017	M. domestica
mosquito control in, insecticides for 2108	in Chile 3176	in dung 2436
Orthopodomyia alba in, in West Virginia	infectivity of 351, 806	in fowl dung 2428, 3012
1821	isolating of 36	in fowl, residues of 2428
Phlebotominae in, in Bihar 1262	transmission of 3173	in fowl eggs, residues of 2428
Phlebotomus major in, in Sinkiang-Uighur	xenodiagnosis of 351	
421	virus-like particles in, pathogenicity of	Tribolium castaneum, sterilisation of,
Trehalase	808	chemosterilants for 1755
in Periplaneta americana	Triatoma lenti	Tribolium confusum
localisation of 1734	genitalia in 2574	control of, growth regulators for 1453
properties of 1734	habitats of 2574	Hymenolepis diminuta in
in Simulium damnosum complex, use as	in Brazil 2574	effects of 1391
taxonomic character of 3314	Triatoma maculata	effects of mebendazole on 1625
Trehalose (see α-D-Glucopyranoside, α-D-	genitalia in 2574	H. nana in, effects of mebendazole on
	habitats of 2574	1625
glucopyranosyl) Trematoda 1119	in Brazil 2574	Tricarboxylic acid cycle, in Musca
		domestica 157
Dicrocoelium dendriticum 316, 688,	Triatoma melanocephala	
1068, 3053	descriptions of 2296	Trichillum adisi
D. lanceolatum 2727	in Brazil 2296	sp. nov., description of 3379
Prosthogonimus ovatus 316	in dwellings, in Brazil 2296	in Brazil 3379
Trematodes, index-catalogue of 1119	life-cycle of 2296	on Bradypus tridactylus, in Brazil 3379
Fremor, in rat, caused by cismethrin 1452	on Bromeliaceae, in Brazil 2296	Trichinella spiralis, in, Crustacea,
Triacontane, 2-methyl-, in Musca domestica	Trypanosoma cruzi in, in Brazil 2296	transmission of 746
cuticle 2706	Triatoma pallidipennis, chromosomes in	Trichlorfon (see Trichlorphon)
Triacontane, 3-methyl-, in Musca domestica	1502	Trichlormetaphos-3 (see Phosphorothioic
cuticle 2706	Triatoma pseudomaculata	acid, O-ethyl O-methyl O-(2,4,5-
Triacontane, 4-methyl-, in Musca domestica	domiciliarity in 1744	trichlorophenyl) ester)
cuticle 2706	in Brazil 811, 1744	Trichlorphon (dimethyl (2,2,2-trichloro-1-
trianguliceps, Ixodes	Triatoma rubrofasciata	hydroxyethyl)phosphonate)
triannulatus, Anopheles	feeding behaviour in, model 2021	against
Trianthema portulacastrum, ecdysterone in,	in Brazil 811	Anopheles atroparvus 75
production in callus cultures of 3130	tibial pads in 3168	Argas persicus, in fowl housing .1718
Triatoma	Triatoma rubrovaria	Cheyletiella yasguri, on dog 12
descriptions of 1474	genitalia in 2574	Cimex lectularius, in fowl housing
distribution of 1474	habitats of 2574	1718
Triatoma arthurneivai	in Brazil 2574	Culex molestus 75
genitalia in 2574	Triatoma sanguisuga	C. pipiens 2604
habitats of 2574	in USA 349	Diptera 532
in Brazil 2574	Trypanosoma cruzi in, in Texas 349	Euproctis chrysorrhoea 3377
Triatoma barberi	Triatoma sordida	Hypoderma spp., on cattle 878, 2689
blood-feeding of, membranes for 3249	biology of 1474	3330 3330
	descriptions of 1474	H. bovis, on cattle 1591
in Mexico 352		
in dwellings, in Mexico 352	domiciliarity in 1744	Lucilia sericata, on sheep 2707
Trypanosoma cruzi in, in Mexico 352	feeding behaviour in 805	Musca domestica, in cattle farms 477
Triatoma brasiliensis	in Bolivia 1474	M. sorbens, in cattle farms 477
domiciliarity in 1744	in Brazil 806, 811, 812, 1744	Oestrus ovis, on sheep 3331
in Brazil 811, 1744	in dwellings, in Brazil 812	Ornithodoros lahorensis 3410
Triatoma circummaculata	parasitised by, Telenomus fariai, in Bolivia	Periplaneta americana 23, 1681
genitalia in 2574	_ 1474	Sarcoptes scabiei, on pig 1959
habitats of 2574	Trypanosoma cruzi in, infectivity of,	Stomoxys nigra, on cattle 203
in Brazil 2574	strain differences in 806	Wohlfahrtia magnifica, on sheep 334
Triatoma costalimai	Triatoma spinolai	in Bacillus thuringiensis, not toxic 312
genitalia in 2574	in Chile 3176	in Musca domestica, effects on fertility or
habitats of 2574	Trypanosoma cruzi in, in Chile 3176	2176
in Brazil 2574	Triatoma tibiamaculata	resistance to, in
Triatoma gerstaeckeri	genitalia in 2574	Cimex lectularius, loss of 2572
in USA 349	habitats of 2574	Culex pipiens, and cross-resistance
Trypanosoma cruzi in, in Texas 349	in Brazil 2574	2604
Triatoma guasayana	Triatominae	Musca domestica 1893
genitalia in 2574	blood-feeding in, evolution of 1170	development of 2176
habitats of 2574	control of	in German Democratic Republic
in Brazil 2574	biological 2381	3350
Triatoma infestans	insecticides for 807, 1137	synergists for 2604
		,
activity in, rhythm of 315		with coumanhos, against Haematoninus
activity in, rhythm of 315 aorta in 2297	flagellates in, in Paraguay 3174 in Bolivia 1474	with coumaphos, against, Haematopinus tuberculatus, on Asian buffalo 2250

Triatoma infestans contd.

Trichlorphon contd.	Trichoribates novus	Trombiculidae contd.
with lindane	Anoplocephalata in, in USSR 1081	on Rodentia
against Anopheles spp. 2039	in USSR 1081 Trichoribates trimaculatus	in Indonesia 1963
A. atroparvus 75	Anoplocephalata in, in USSR 1081	in Kiangsu 2760 on small mammals
Culex molestus 75	in USSR 1081	in Africa 1660
in building materials, persistence of	Trichuris, in, pig, in German Federal	in Bulgaria 1664
2039	Republic 1959	in Maritime Territory 491
with molasses 477	Tricladida, in aquatic habitats, effects of	on Sylvilagus floridanus
Trichocera saltator	pirimiphos-methyl on 2942	in Indiana 3145
in UK 1602	5-Tricosene, (Z)-, Haematobia irritans sex-	in USA 1155
in human cadavers, in UK 1602	pheromone component 1898 9-Tricosene	Trombiculindus guangdongensis (see Leptotrombidium guangdongense)
Trichocorixa, predators of, detecting of 1483	(E)-, Musca domestica responses to 1073	Trombiculindus nanlingensis (see
Trichodectes canis	(Z)- (see Muscalure)	Leptotrombidium nanlingense)
in India 2470	tridentatus, Argas	Trombidiformes
in Netherlands 1135	trilineatus, Buthotus	on small mammals, in Czechoslovakia
on man, in Netherlands 1135	trimaculatus, Tabanus	933
Trichodectes melis	trimaculatus, Trichoribates Trinidad and Tobago	taxonomy of, respiratory system characters for 741
in Hungary 2012	Culex simulator in 109	trompe, Cephenemyia
on Meles meles, in Hungary 2012	Culicidae in 614	tropicalis, Lipeurus lawrensis (see
Trichodectes mustelae	Culicoides phlebotomus in	Numidilipeurus lawrensis tropicalis)
in Hungary 2012	filariae in 2386	tropicalis, Numidilipeurus lawrensis
on Mustela nivalis, in Hungary 2012	on man 2386, 2387	Tropics, human arbovirus diseases in, review
Trichoderma, in, Culicidae, in Ukraine 1025, 1757	trinidadensis, Lutzomyia tripectinata, Stenoponia	1945 Tropisternus, in animal waste lagoons,
Trichogramma, parasitising, aquatic Diptera,	Tripoli (see Kieselguhr)	effects of organic pollution on 1814
in New York State 3373	Triprene (S-ethyl (2E,4E)-11-methoxy-	trouessarti, Cheyletus
Trichogramma californicum 3373	3,7,11-trimethyl-2,4-dodecadienethioate)	Trouessartia, on Passeriformes, in New
Trichogramma julianoi	against, Culex pipiens 1754	Zealand 801
sp. nov., description of 3372	in Culex pipiens, effects of 1754	Trout, rainbow (see Salmo gairdneri)
in USA 3372, 3373	Tripteroides bambusa	Trox in Saudi Arabia 2528
parasitising Elgiva sundewalli, in New York State	breeding places of 603 Coelomomyces macleayae in, in Taiwan	taxonomy of 2528
3373	2031	truculentus, Parabuthus
Sepedon fuscipennis, in New York State	C. stegomyiae in, in Taiwan 2031	truncatellus, Arrenurus
3372, 3373	in Japan 603	truncatum, Hyalomma
Tetanocera spp., in New York State	in Taiwan 2031	truncatum, Simulium
3373	in tyres, in Hokkaido 603	Trypaflavin, marker for, Siphonaptera 360
seasonal abundance of 3373 Frichogramma semblidis 3373	tripus, Polygenis triseriatus, Aedes	Trypaflavine (see Acriflavine) Trypan blue, marker for, Siphonaptera 360
Tricholioproctia, descriptions of 893	tritaeniorhynchus, Culex	Trypanosoma
Tricholipeurus lipeuroides	tritici, Pyemotes	control of 1083, 1306, 1308, 1587, 1886
in Canada 556	Triticum aestivum (see Wheat)	vector control for 943, 1695, 2993
on Odocoileus, in Alberta 556	Triticum durum (see Wheat)	culture methods for 1470
Tricholipeurus parallelus	Tritriacontane, 15,19-dimethyl-	development of, in vectors 1084
in Canada 556 on <i>Odocoileus</i> , in Alberta 556	Glossina austeni responses to 649 G. morsitans responses to 649	in cattle
Crichomycetes, in, Culicidae, in Nebraska	9-Tritriacontene, (Z)-, in Musca domestica	and in wild animals 1879
2043	cuticle 2706	in Gambia 1299
Trichoplusia ni	trivittatus, Aedes	in Niger 1302
enzymes in 2795	trivittatus, Tityus	tolerance of 3327, 3328
Nosema algerae in, replication of 112	Trivittatus virus, in, Aedes trivittatus, in	Glossina spp.
Trichopria, parasitising, Tabanus nigrovittatus, in Connecticut 1603	Indiana 2900 Trixacarus caviae	detecting of 1312 infectivity of 1865, 1877
Trichopria cilipes (see Aclista alticollis)	control of, acaricides for 510, 1978	interaction of 1866
Trichopria lonchaearum	in USA 510, 1978, 1979, 1980	transmission of 1867
in Romania 453	on guinea-pig	G. palpalis, transmission of 2994
parasitising, Piophila casei, in Romania	alopecia caused by 1978	goat, tolerance of 3327, 3328
453	effects of 1979, 1980	livestock, in Upper Volta 1304
Trichopria major in Romania 453	hyperkeratosis caused by 1978 in USA 1979	sheep, tolerance of 3327, 3328 research on 1887
parasitising	skin lesions caused by 510	vectors of 1303, 1868
Lucilia sericata, in Romania 453	taxonomy of	host preferences of 2150
Paregle spp., in Romania 453	characters distinguishing Notoedres and	Trypanosoma brucei (see also Sleeping
Piophila casei, in Romania 453	1978	sickness)
Trichopria nigra in Romania 453	characters distinguishing Sarcoptes scabiei and 1978, 1980	control of 1309 reservoir control for 1871
parasitising, Piophila casei, in Romania	Trogidae, in Saudi Arabia 2529	vector control for 1332, 1871
453	Trogopterus xanthipes	culture methods for 875
Trichopria oxygaster	Leptotrombidium yunnanensis on, in	epidemiology of, role of tribal culture in
in Romania 453	Yunnan 1667	1871
parasitising, Piophila casei, in Romania	Macrostylophora hebeiensis on, in China	foci of 1869
453 Frichopria parvula (see Monelata parvula)	1188 Trombicula akamushi deliensis (see	in cattle
Trichopria tabanivora 1603	Leptotrombidium deliense)	in Chad 1303
Trichopria tetratoma (see T. oxygaster)	Trombicula autumnalis (see Neotrombicula	in Gambia 1298, 1305
Trichoprosopon digitatum	autumnalis)	Glossina fuscipes, transmission of
in Venezuela 1222, 2362	Trombicula subakamushi (see Chiroptella	1310
in Heliconia aurea bracts, in Venezuela 1222	subakamushi) Trombiaulidae	G. morsitans
in Heliconia aurea floral bracts, cohorts of	Trombiculidae control of, acaricides for 1412	antigenic changes in 1335 sexual forms of 3326
2362	in Afghanistan 695	G. pallidipes, in Kenya 651, 1312
Crichoptera Crichoptera	in Ryukyu Islands 2230	G. palpalis, transmission of 1310,
in rivers	in oil-palm plantations, in West Malaysia	1872, 1873
as indicators of effects of insecticides	1412, 1973	G. tachinoides, transmission of 1873
1292	on Bandicota bengalensis, in Burma	livestock, in Zambia 1308
effects of methoxychlor on 1281	2479 on mammals, in Indiana 1966	man in Africa 1311
Simuliidae, in USSR 1045	on Rattus, in Burma 2479	in Congo 1310
Simulium spp., in Ivory Coast 1849	on Rattus tiomanicus, in West Malaysia	in Ivory Coast 1872
pyrethroids in, toxicity of 876	1412	in Mozambique 1307

Trypanosoma brucei contd.	Trypanosoma evansi contd.	Tunga penetrans contd.
in contd.	in contd.	on man contd.
		in Brazil 48
man contd.	Tabanidae, transmission of 184	
in Nigeria 1309, 1322	zebu, in Malaysia 2538	in East Africa 52
in Tanzania 1871	Trypanosoma gambiense (see T. brucei)	in Senegal 566
in Upper Volta 644	Trypanosoma hedricki	Tunicamycin, in Stomoxys calcitrans, not
in West Africa 1869, 1873	in	inhibiting chitin synthase 3032
in Zambia 1333	Aedes aegypti, not developing 2863	Tunisia
pig	Cimex brevis, development of 2863	Buthus occitanus in 2255
in Ivory Coast 1872	Eptesicus fuscus, in Ontario 2863	Culicoides circumscriptus in 1251
in West Africa 1869, 1873	Myotis lucifugus, not infective 2863	Leptotrombidium spatzi in, on Dipodilli
metacyclic forms of, culture methods for	Rhodnius prolixus, not developing	2490
149	2863	Phlebotominae in 2967
vectors of 644	Steatonyssus occidentalis, not	
Trypanosoma congolense	developing 2863	Scorpiones in, on man 2256
antigens of, effects of cyclical transmission	Trypanosoma melophagium, in, Melophagus	Tupaia glis
on 153	ovinus, not pathogenic 3357	Gahrliepia meridionalis on, in Yunnan
culture methods for 2162, 2381	Trypanosoma rangeli	1667
epidemiology of 1870	in	Hylopecheyla malayi on, in West
in	Rhodnius prolixus	Malaysia 2771
cattle	detecting of 813	turanicum, Hyalomma marginatum
in Chad 1303	in Panama 2020	turanicum, Hyalomma plumbeum (see H.
in Ethiopia 1306	in Venezuela 37	marginatum turanicum)
		turanicus, Rhipicephalus
in Gambia 1298, 1305	penetration of salivary glands by	Turbellaria 2942
in Mozambique 1307	1181	
in Senegal 1301	Trypanosoma rhodesiense (see T. brucei)	Dugesia dorotocephala 1830
Glossina morsitans	Trypanosoma simiae, in, livestock, in	Mesostoma 2115, 3229
development of 153	Zambia 1308	turbidus, Ceratophyllus (see Megabothris
transmission of 1870, 2164	Trypanosoma theileri, in, cattle, in Gambia	turbidus)
G. pallidipes	1298	turbidus, Megabothris (Ceratophyllus)
effects on mid-gut of 1114	Trypanosoma vivax	turdi, Ornithoica
in Kenya 1085, 1312	in	Turdus hortulorum, Haemaphysalis japoni
goat, local skin reaction to 2164	Boophilus microplus, infectivity of	on, in Maritime Territory 2734
livestock, in Zambia 1308	2466	Turdus iliacus, Protocalliphora spp. on, in
Trypanosoma cruzi (see also Chagas'	cattle	USSR 2708
disease)	in Chad 1303	
control of	in Ethiopia 1306	Turdus merula
book 1504	in Gambia 1298, 1305	Eufilaria spp. in, in France 1573
integrated 38	in Mozambique 1307	Lyctocoris campestris in nests of, in
vector control for 807, 812, 1137,	in Senegal 1300, 1301	Switzerland 564
3173	Glossina morsitans, transmission of	Turdus naumanni, Haemaphysalis japonica
human ecology and 38	1878, 2164	on, in Maritime Territory 2734
in	G. pallidipes, in Kenya 1085	Turdus pallidus, Haemaphysalis japonica o
cat, in Chile 3176	goat	in Maritime Territory 2734
dog, in Chile 3176	in lymph 1878	turkestanica, Hybomitra
man	local skin reaction to 2164	Turkey
in Brazil 42, 811	livestock, in Zambia 1308	Anopheles sacharovi in 76, 2127
in Chile 3176	Trypanosomiasis	Blattaria in 788
in French Guiana 1154	control of 1587	malaria in 76, 2127
in Mexico 352	irrigation as affecting 1874	mites in, in house dust 3094
oral infectivity of 2299	rural development as affecting 1874	Musca domestica in, in poultry farms
mouse, oral infectivity of 2299	Trypanozoon (see Trypanosoma)	3017
Mus musculus, in Mexico 352	Trypsin	Sarcoptes scabiei in, on man 519
Panstrongylus megistus, infectivity of	in Aedes aegypti excreta 2076	Tabanus darimonti in 3368
806	in Haematobia irritans gut 3369	Turkeys (Meleagris gallopavo)
Rattus norvegicus, in Mexico 352	in Stomoxys calcitrans gut 3369	Plasmodium hermani in, in Florida 83
Rhodnius neglectus, infectivity of, strain	Trypsin inhibitor	Turlock virus, in, Culex tarsalis, in
differences in 806	in Boophilus microplus 960	California 2081
R. prolixus	in Stomoxys calcitrans blood-meals, effects	Twinnia, maxillary sensilla in 3309
in Panama 2020	on digestion of 2437	Twinnia hydroides (see Prosimulium
in Venezuela 37	Tryptamine, 5-hydroxy- (see 1H-Indol-5-ol,	hydroides)
lectins to 2295	3-(2-aminoethyl)-)	Twinnia subtibbelesi (see Prosimulium
rodents, in Texas 349	L-Tryptophan	subtibbelesi)
squirrel, in Mexico 352	in Aedes togoi, utilisation by Brugia patei	Tylenchida, in, insects, book 1134
Triatoma barberi, in Mexico 352	of 68	Typhloceras poppei
T. gerstaeckeri, in Texas 349	in Anopheles atroparvus, utilisation by	in Morocco 3183
T. infestans	Brugia patei of 68	on Apodemus sylvaticus, in Morocco
development of infection with 2017	in Psoroptes cuniculi, not found 2486	3183
in Chile 3176	in Psoroptes ovis, not found 2486	typhus, Hybomitra
infectivity of 351, 806	tsushimaensis, Hybomitra	Typhus, Queensland tick, tick transmission
transmission of 1474	tuberculatus, Haematopinus	of 3137
xenodiagnosis of 351	tuberculatus, Haematophius tuberosum, Simulium	Typhus, Siberian tick, tick transmission of
T. melanocephala, in Brazil 2296	Tubifex, in aquatic habitats, effects of	3137
T. sanguisuga, in Texas 349	pirimiphos-methyl on 2942	Tyramine (see Phenol, 4-(2-aminoethyl)-)
T. sordida	Tubifex tubifex	Tyres
infectivity of, strain differences in	preyed on by	Aedes aegypti in
806	Gambusia affinis 3213	in Fiji 412
transmission of 1474	Poecilia reticulata 3213	in Florida 65
T. spinolai, in Chile 3176		A. atropalpus in
	tubiformans, Gnathamitermes	
Triatominae, transmission of 326, 3172	Tugon (see Trichlorphon) Tulgramia (see also Pasteurella tulgransis)	in Indiana 3251 in New York State 1195
	Tularemia (see also Pasteurella tularensis)	
metacyclic trypomastigotes of, isolating	in USSR 3413	in Ohio 3251
from vectors of 36	Tumors (see Neoplasms)	A. japonicus in, in Hokkaido 3271
vectors of	Tunga penetrans	A. triseriatus in, in Wisconsin 2935
book 1504	control of 566	Culicidae in, in Hokkaido 603
in Brazil 811	removal for 2865	Toxorhynchites rutilus in, in Ohio 119
review 3138	surgical removal for 48, 52	Tyroglyphus farinae (see Acarus siro)
Trypanosoma evansi	in Brazil 48	Tyroglyphus longior (see Tyrophagus
hosts of 184	in Senegal 566	longior)
in1	in Suriname 2865	Tyrolichus casei, antigens of 1669
camel	life-cycle of 52	Tyrophagus longior
in Chad 1303	on man	in Romania 980
in Ethiopia 1306	effects of 2865	on man, role in colitis of 980

Tyrophagus putrescentiae
aggregation in, caused by Lardoglyphus
konoi pheromone 3424
alarm pheromone in 1652
components of 3425
antigens of 3097 enzymes in, and in house dust 1964
in Japan 288
on budgerigar, in Japan 288
Tyrosinase (see Oxygenase, monophenol
mono-)
L-Tyrosine in Andre negypti diet utilisation of 2047
in Aedes aegypti diet, utilisation of 2047 in Aedes togoi, utilisation by Brugia patei
of 68
in Anopheles atroparvus, utilisation by
Brugia patei of 68
in Anopheles stephensi, effects of Plasmodium berghei on 1199
in Cimex hemipterus mycetocytes 2301
in Periplaneta americana salivary glands
786
L-Tyrosine, 3-hydroxy-, in Anopheles
atroparvus, utilisation by Brugia patei of 68
L-Tyrosine, O-(4-hydroxy-3,5-diiodophenyl)-
3,5-diiodo-
in Chironomus, effects on development of
3256
in Culex quinquefasciatus, effects on development of 3256
L-Tyrosine, 3-hydroxy-\alpha-methyl- (see
Methyldopa)
Tyrrellia circularis, in USA 629
Tyuleniy virus
in Ixodes uriae, in Norway 702
man, antibodies to 1947
Uca pugilator, enzymes in 877
Uganda
Aedes spp. in, in Colocasia axils 1116
A. africanus in 1112 Glossina spp. in 1877
Notoedres spp. in, on Tadarida 283
Ruttenia loxodontis in, on Loxodonta
2451
Ulmus, Ceratopogonidae in holes in, in
Ulmus, Ceratopogonidae in holes in, in Spain 129
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra unculatum, Austrosimulium
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis. Mansonia
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratiles, Lutzomyia umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 unciastus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 inatural enemies of 88, 1757 A. campestris in 410
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilas, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 inatural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058,
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uucia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 inatural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. exerucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uucia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Ulcia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Ulnion of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uucia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758 A. noplura in, on small mammals 2571
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Ulcia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758 Anoplura in, on small mammals 2571 Argas persicus in
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Ulcia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758 Anoplura in, on small mammals 2571 Argas persicus in
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Ulcia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758 Anoplura in, on small mammals 2571 Argas persicus in in fowl housing 1718 mycoplasmas in 1029 Argasidae in 1941
Ulmus, Ceratopogonidae in holes in, in Spain 129 ulysses, Haemolaelaps umbratica, Hebecnema umbratilis, Lutzomyia umbricola, Leptotrombidium Uncia uncia, Demodex cati on, in San Antonio Zoo 2234 uncinatus, Ctenophthalmus underwoodi, Eucorethra ungulatum, Austrosimulium unicolor, Attagenus uniformis, Mansonia Union of Soviet Socialist Republics Acari in, on bats 1071 Aedes spp. in 1058 in reservoir lakes 2588 natural enemies of 88, 1757 A. campestris in 410 A. caspius in 403 A. excrucians in, natural enemies of 2590 A. geniculatus in, natural enemies of 2590 A. vexans in, on man 2597 Amphipsylla rossica in 2579 Anaticola spp. in 2567 Anopheles spp. in 86, 405, 1041, 1058, 1075, 1523 A. atroparvus in 87, 2596 A. hyrcanus in 1758 A. maculipennis in 850, 2596 natural enemies of 1757, 2590 A. messeae in 404, 2596 in rice-fields 56 A. pulcherrimus in 1758 A. sacharovi in 850, 851 on man 853 A. superpictus in 1758 A. noplura in, on small mammals 2571 Argas persicus in in fowl housing 1718 mycoplasmas in 1029

Union of Soviet Socialist Republics contd. blood-sucking flies in 1062 on cattle 1521 brucellosis in 3413 Calliphora vicina in 894 Callopsylla caspia in, bacteria in 355 C. kazbegiensis in, on Apodemus 816 Cataglyphis aenescens in, trematodes in Cephalopina titillatrix in, on camel 3332 Ceratopogonidae in 1024, 1079 Ceratozetoidea in, cestodes in 1081 Cimex lectularius in, in fowl housing Coptopsylla spp. in, in gerbil burrows 1518 Coquillettidia richiardii in 1031 Cricotopus sylvestris in, in rice-fields 56 Culex martinii in 77 C. molestus in, natural enemies of 1757 C. pipiens in, natural enemies of 1890, 2590 C. territans in 77 Culicidae in 411, 841, 852, 1024, 1079, 1219, 1548, 1760, 2346, 2594, 3263, 3264 natural enemies of 1019, 1025, 1038

Culicoides spp. in 130, 1030, 1058, 2647

C. grisescens in 2648

C. punctatus in 2962

C. sinanoensis in 2966 Demodex spp. in, on man 1666
Dermacentor spp. in, on Microtus D. reticulatus in, rickettsiae in 3399 Diptera in on birds 1021 on livestock 1055 on man 1055 Formica spp. in, trematodes in 1068 F. mesasiatica in, trematodes in 3053 Gamasinae in in rodent nests 1032 on bats 1077 on Rodentia 3389 Gamasoidea in on mouse-like rodents 993 on Sorex 1675 Gasterophilidae in 154 Gasterophilus spp. in, on horse 442 Haemaphysalis japonica in 2734 H. kutchensis in, on Asio 3080 Haematobia thirouxi in, nematodes in 1891 Hippoboscidae in 681 Hoplopleura edentula in, on Clethrionomys 343 Hybomitra spp. in, natural enemies of 156 H. shnitnikovi in 676 Hypoderma spp. in, on cattle 3330 H. bovis in, on cattle 440, 1590, 1591, 2689 2689

H. lineatum in, on cattle 2689

Hypodermatidae in 154
insect fauna of, book 2826

Ixodes persulcatus in 493, 708, 1035, 1036, 1044, 1934
viruses in 716 I. ricinus in I. heims in on cattle 253 rickettsiae in 3399
I. trianguliceps in 977, 2736
Ixodidae in 1072, 1636, 2747, 3083, 3411 on Rodentia 3389 Latrodectus spp. in 2778 malaria in 86, 1041 Melophagus kamtshaticus in, on Ovis 446 mites in, in mammal nests 1053 Mus musculus in, arthropod parasites of 1060 Muscidae in, nematodes in 883
Nosopsyllus spp. in, on small mammals N. laeviceps in 815 Oestridae in 154 Oestroidea in, on livestock 2691
Oestrus ovis in, on sheep 3331 Oestrus ovis in, on sheep 333 Oribatei in, cestodes in 1051 Ornithodoros spp. in on Amphibia 3408 on Reptilia 3408

O. alactagalis in 969, 970

Union of Soviet Socialist Republics contd. Peromyscopsylla silvatica in, on small mammals 1052 Phlebotomus papatasi in 2145 viruses in 3307 Piophila casei in, on man 884 Polyplax opimi in, on Rhombomys Protocalliphora spp. in, on Turdus 2708 Rhinoestrus purpureus in on horse 442 on man 654 Rhodacaridae in, book 1006 Scelionidae in 2178 Sergentomyia dentata in 2145 Simuliidae in 1067, 1076, 1079 natural enemies of 1045, 1055, 1059 Simulium spp. in 1023, 1037 natural enemies of 1054 S. angustitarse in, natural enemies of 1586 S. mediterraneum in 430, 642 S. nigrum in, on livestock 2973 S. ornatum in, natural enemies of 1586 S. parargyreatum in 424 S. pathrushevae in 423 S. pseudequinum in 2663 Siphonaptera in on Microtus 1026 on Rhombomys 571 on Rodentia 2868, 3389 on small mammals 1042, 1049, 2871, 3184 research on 2318 small mammals in, arthropod parasites of 491, 1046 Sphaeroceridae in 675 Staphylinidae in, in dung 1057 synanthropic flies in 899, 900, 1040 Tabanidae in 205, 1024, 1070, 1079, 1376, 1616, 2409, 2692, 2694, 3348 natural enemies of 1020, 1617, 3040, 3336, 3347 on livestock 1078 Tabanus autumnalis in natural enemies of 445, 2695 T. bromius in, natural enemies of 156, 2693 T. golovi in 1604 tick-borne encephalitis in 1946, 3413 tularemia in 496 tularemia in 496
Wohlfahrtia magnifica in, on sheep 3349
Xenopsylla spp. in 1516
in gerbil burrows 1518
X. conformis in 356 United Kingdom Aculeata in 691 Alphitobius diaperinus in, in dwellings 486 Anopheles atroparvus in 3277 Aphodius spp. in 1383 in cattle dung in dung 228
birds' nests in, insects in 776
Blatta orientalis in, bacteria in 3157 Blattaria in, in hospitals 1141 buildings in, insect pests in 1139
Carcinops pumilio in, in dwellings 486
Ceratophyllus gallinae in, on man 2341 Cercyon spp. in, in cattle dung 1383 Cheyletus woodroffei in, in bat roosts 506 Chorioptes bovis in, on cattle 2761 Cimex lectularius in 1147 Coleoptera in, in cattle dung 490 Crataerina pallida in, in dwellings 2690 Ctenocephalides canis in, on dog 2872 C. felis in on cat 2872 on dog 2872 Dermanyssus gallinae in, on man 2242
Dermatophagoides pteronyssinus in, in bedding 1975
Dermestes maculatus in in dwellings 486 in poultry housing 3057 Diptera in, in dog dung 220 Dryomyza anilis in, in pheasant carcasses 2183 dwellings in, arthropod pests in 331 Euproctis chrysorrhoea in, in railway embankments 3377 Glossina research in 871

United Kingdom contd. Urban areas Haemaphysalis punctata in on cattle 3086 on dog 3086 Anopheles arabiensis in, in Nigeria 765 mosquito control in 832, 1712 pest management in, book 2833 sporozoans in 2472, 3398 synanthropic flies in, movement from livestock farms of 900 Haematopinus suis in, on pig 9 Haematopota pluvialis in 3338 urbana, Mydaea hospitals in, pest control in 1146 Urea, (4-chlorophenyl)household pests in 7 Hydrophilidae in, in dung 228 in Lepomis macrochirus, diflubenzuron metabolite 2109 in natural waters, diflubenzuron product Hypoderma bovis in, on cattle Insponential bows in, on cattle 653

Ixodes ricinus in 3086
on cattle 946, 2212
sporozoans in 3398 2109 Urethane polymers
Alphitobius diaperinus in, damage caused by 2204 I. trianguliceps in, on small mammals insecticide-impregnated cattle ear tags of 2430 Limnophyes minimus in, in sewage Uria aalge, Ixodes uriae on, in Norway systems 2168 malaria in 3277 702 uriae, Ixodes medical entomology in 2381 Mesostigmata in 302 Uric acid (see 1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-) Metriocnemus hygropetricus in, in sewage systems 2168, 2719 Uridine in Aedes togoi, utilisation by Brugia patei of 68 mosquito research in 840, 2616, 2633

Musca domestica in, in piggeries 467

Orchopeas howardii in, on dog 2872

Paratanyarsus spp. in, in water supply in Anopheles atroparvus, utilisation by Brugia patei of 68 in mosquito cell lines, incorporation of 1568 Pediculus capitis in, on man 347, 1142, Urophonius 1147 in Argentina 1477 metasomatic glands in 524 P. humanus in, on man 1142, 1147 pesticide use in 1432 Uroplectes poultry housing in, arthropod fauna of 1717 in Zimbabwe 1428 on man, stings by 1428 Uropoda orbicularis in Poland 1655 Psoroptes ovis in, on sheep 3101 Pthirus pubis in, on man 1142, 1147 Sarcoptes scabiei in on Apodemus, in Poland 165 on Microtus, in Poland 1655 on cattle 2761 on man 1142, 1147 on pig 985 Uropsilus soriceps, Geusibia stenosinuata on, in Yunnan 568 Scathophaga stercoraria in, in cattle dung Uroxys besti sp. nov., description of 3379 in Brazil 3379 1927 Sepsidae in 2456 on Bradypus tridactylus, in Brazil 3379 Simulium pseudequinum in 2670 Sphaeridium spp. in, in dung 1928 Spilopsyllus cuniculi in, on rabbit 2324 Sternostoma tracheacolum in, on canary Ursicoptes procyoni sp. nov., description of 737 in USA 737 on Procyon lotor, in Iowa 737 Ursus americanus, Dirofilaria ursi in 1296 Trichocera saltator in, in human cadavers 1602 tsetse research in 3003 Vespa crabro in 694 caused by Latoia vivida 485 caused by Triatoma infestans 31 role of house-dust mites in 3108 3167 veterinary entomology in 2650, 3048 United States of America (see also individual States) Utah Culex tarsalis in 381 Culicidae in 3212 Geomydoecus spp. in, on Thomomys acarologists in, directory 2269 arthropod cultures in, catalogue 199 entomologists in, directory 2269 Geomydoccus spp. in, on Thomomys 1999 3164 Tunga penetrans in, on man 48 human babesiosis in 3396 pest management in, book 2833 western equine encephalitis in 381 utia, Frontopsylla frontalis univittatus, Čulex Utricularia minor, Culicidae and predators Upper Volta pper Volta

Aedes aegypti in 1714

Anopheles spp. in 1708

Culex quinquefasciatus in 644, 1714

Culicidae in 2361

Dermanyssus spp. in, on rabbit 2687

Glossina spp. in 1304, 1696

G. palpalis in 435, 873, 1088, 1323, 1324, 1326, 1698, 1699, 1875, 1884, 2986, 2987, 3004

G. tachinoides in 435, 1875, 2401, 2982, 2983, 2986, 2987, 2988

Haemolaelaps spp. in 3422 as affected by 1243 Uukuniemi virus in Aedes albopictus, persistent infection with 1839 Argas hermanni, in Afghanistan 695 Ixodes ricinus, transmission of 2233 Uukuniemi viruses, in, Ixodes uriae, in Norway 702 vacca, Onthophagus vagans, Coproica (see Leptocera vagans) vagans, Culex Haemolaelaps spp. in 3422 Hippobosca variegata in 644 Mansonia spp. in 1708 onchocerciasis in 147 vagans, Leptocera (Coproica) Valeric acid (see Pentanoic acid) Valexon (see Phoxim) L-Valine Psoroptes cuniculi in, on rabbit 2687 in Aedes togoi, utilisation by Brugia patei Simulium spp. in on man 2672 147, 1704 in Anopheles atroparvus, utilisation by Brugia patei of 68 in Psoroptes cuniculi 2486 sleeping sickness in 644 trypanosomiasis in 1304 in Psoroptes cuniculi 2486
in Psoroptes ovis 2486
Vandalism, protection of mosquito lighttraps against 3283
vandersandei, Schoengastia
Vanilla (flavouring), Periplaneta americana
olfactory responses to 797
Vanuatu (see New Hebrides) Uranotaenia Coelomomyces quadrangulatus in, in Taiwan 2031 in Azerbaijan 852 in Canada 1533 Uranotaenia recondita 2031 Uranotaenia sapphirina, in USA 1820

vanus, Anopheles

Urate oxidase (see Oxidase, urate)

vanzyli, Strobiloestrus Vapona (see Dichlorvos) variabilis, Dermacentor variegata, Hippobosca variegata, Odagmia (see Simulium variegatum) variegatum, Amblyomma variegatum, Simulium (Odagmia) variipennis, Culicoides variolus, Latrodectus
varipes, Chrysomya
varivestis, Epilachna
varuna, Anopheles
Vases, Culicidae in, in Hokkaido 3271 Vavraia culicis Aedes aegypti, infectivity of 2891 A. taeniorhynchus, infectivity of 2891 Anopheles albimanus, infectivity of 2891 Culex quinquefasciatus, infectivity of 2891 C. salinarius, infectivity of 2891 C. tarsalis, infectivity of 2891 Heliothis zea, culturing of 2891 spores of, sunlight inactivation of 2891 Vectors control of 5, 6, 1692 environmental management for 781 microbial agents for 2799 pollution caused by 1690 role in human tropical disease control of 1693 insecticide resistance in 2286 research on, qualitative approaches to 2821 spread of 328 Vegetable oils (see Plant oils) Vegetables dichlorvos in, uptake from air of 2267 naled in, uptake from air of 2267 veltistshevi, Simulium (Wilhelmia) veltistshevi, Wilhelmia (see Simulium veltistshevi) Venezuela Aedes aegypti in, in cemetery vases 2643
Anopheles nuneztovari in 2068
Culex bihaicolus in 2362 C. corniger in, in cemetery vases 2643 C. johni in 579 quinquefasciatus in, in cemetery vases 2643 Culicidae in 2061 Heliconia aurea in, Culicidae in bracts of 1222 Lutzomyia trinidadensis in 632
Mitonyssus spp. in, on bats 223
Panstrongylus lignarius in Phlebotominae in 419 2238 Rhodnius spp. in 1500 R. prolixus in in dwellings trypanosomes in 37 Trichoprosopon digitatum in 2362 Wyeomyia felicia in 2362 Venezuelan equine encephalitis (see Encephalitis, Venezuelan equine) Venoms Androctonus amoreuxi 306 A. australis 742 A. mauretanicus 2252, 2253, 2254 Apis mellifera 231, 1389, 1929, 1930, 1933, 2455, 2458, 2459, 3381 1933, 2453, 2458, 2459, 3581 Centruroides limpidus 522 C. noxius 2781 C. sculpturatus 2499, 3114 Dolichovespula arenaria 1389, 1930, 2455, 3381 D. maculata 1389, 1930, 2455, 3381 Heterometrus fulvipes 2784 H. scaber 3434 Hymenoptera 2205, 3052 Latrodectus antheratus 3115 Leiurus quinquestriatus 309, 742 Loxosceles laeta 523 L. reclusa 2498 Mesobuthus eupeus 30 Naja mossambica 200 307 Pogonomyrmex badius 231 P. barbatus 231 Polistes 1930, 2455 Solenopsis invicta 1388 Tityus serrulatus 1677, 2780

Venoms contd.	Vespula germanica contd.	Viruses and virus diseases contd.
Vespula 1389 1634 1939 2455	venom of 1386, 3381	of vertebrates
Vespula 1389, 1634, 1930, 2455	Vespula maculata (see Dolichovespula	arthropod-transmitted, spread of 328
V. flavopilosa 1386 V. germanica 1386, 3381	maculata) Vespula maculifrons	insect transmission of 3 vishnui, Culex
V. maculifrons 1386, 3381	colonies of, usurped by V. flavopilosa	Vision, insects, book 2004
V. squamosa 1386	487	Vitellins
V. vulgaris 1386, 3381	in USA 487, 3375	in Aedes atropalpus oocytes, hormonal
ventralis, Pherbellia	male behaviour in 3375	regulation of deposition of 125
ventricosa, Rhadinopsylla li	mating in 3375	in Blattella germanica 2007
ventricosus, Pyemotes venustum, Simulium	nesting biology of 487	in Calliphora vicina, properties of 2704
venustum, Simunum venustus, Culicoides	venom of 1386, 3381	Vitellogenins in Aedes aegypti 91
verbekei, Psacadina	Vespula squamosa in USA 487	effects of growth regulators on synthesi
Verbenol (see Bicyclo[3.1.1]hept-3-en-2-ol,	queens of, taking over colonies of V .	of 3268
4,6,6-trimethyl-)	flavopilosa 487	regulation of synthesis of 2613
verecundum, Simulium	venom of 1386	in Aedes atropalpus 91
Vermipsylla control of 1480	Vespula vulgaris	in Calliphora vicina, properties of 2704 in Culex nigripalpus 91
on livestock, in Mongolia 1480	colonies of, usurped by V. flavopilosa	in Gambusia affinis, DDT inducing
Vermont, Siphonaptera in, on Glaucomys	487	synthesis of 3129
1514	in Irish Republic 2182	in Haematobia irritans ovaries 898
vernalis, Acanthocyclops (Cyclops) vernalis, Cyclops (see Acanthocyclops	in Malta (?) 1384 in USA 487	in Leucophaea maderae fat-body
vernalis)	preying on, Hydrotaea irritans, in Irish	JH stimulating synthesis of 24 role of JH in synthesis of 1732
verrucosus, Ornithodoros	Republic 2182	in Sarcophaga bullata, moulting hormone
Verthion (see Fenitrothion)	venom of 1386, 3381	inducing synthesis of 2701
Vesicular stomatitis virus	Veterinary clinics, Diptera in, in Yugoslavia	in Sarcophaga bullata hemolymph, effects
In Andre albaniatus	901 Veteringery seignes, these years 1000, 1001	of abscisic acid on 3360
Aedes albopictus defective interfering particles of	Veterinary science, thesaurus 1990, 1991, 1992, 1993, 1994	Vitis vinifera (see Grapevine) vitripennis, Musca
1834	vetustissima, Musca	vitripennis, Nasonia
replication of 1835	vexans, Aedes	vittatum, Simulium
Vespa	vicarius, Oeciacus	vittatus, Aedes
check-list of 484	viciae, Megoura	vittatus, Aphodius
common names of 2457 Vespa crabro	vicina, Calliphora vicina, Musca domestica (see M. d.	vituli, Linognathus vivericola, Leptotrombidium
foraging in 694	domestica)	vivida, Latoia
in Malta (?) 1384	Victoria	Volcanic ash, insecticidal activity of 3126
in UK 694	Calliphora augur in 2698	Vole
Vespa crabro germana control of 1631	Culicidae in 1214	diazinon in, toxicity of 1718
in USA 1631	Lucilia cuprina in, on sheep 2199 sheep in, fly control on 163	4-74 in, toxicity of 1718 Vole, bank (see Clethrionomys glareolus)
mating in 1631	vidourlensis, Culicoides	Vole, Brandt's (see Microtus brandti)
pheromones in 1631	vieta, Schoengastia	Vole, common (see Microtus arvalis)
preying on, Vespula spp., in Maryland	Vietnam	Vole, field
1631 Vocana orientalia	Afrolabidocarpus vietnamensis in, on	Callopsylla caspia on, in Caucasus 355
Vespa orientalis enzymes in 3051	Hipposideros 2484 Sarcophagidae in 3337	Yersinia pestis in, in Caucasus 355 Vole, gray-tailed (see Microtus canicaudus)
in Malta 1384	vietnamensis, Afrolabidocarpus	Vole, pine (see Microtus pinetorum)
mid-gut in, presynaptic effects of extracts	Vinblastine, in Lucilia sericata, inhibiting	Vombatus ursinus, Raillietia australis on, in
of 483	sugar receptors 461	Australia 3102
venom of 3051 vespertilionis, Argas	vindemiae, Pachycrepoideus virescens, Heliothis	vomitoria, Calliphora vonwredei, Loxosceles
vespertilionis, Ixodes	virgatum, Simulium	vulgare, Simulium
vespertilionis, Lutzomyia	Virgin Islands	vulgaris, Argas
Vespidae	Amblyomma variegatum in 958	vulgaris, Paravespula (see Vespula vulgaris)
control of, traps for 895	Scorpiones in 1008	vulgaris, Vespula (Paravespula)
in British Isles 691 in Malta 1384	Stomoxys calcitrans in 1090 Virgin River virus, in, Anopheles freeborni,	Vulpes fulva Malassezia pachydermatis in, in New
on man, hypersensitivity to, diagnosis of	in Arizona 2949	York State 2240
1389, 3383	Virginia	Sarcoptes scabiei on, in New York State
venoms of, toxicity to mouse of 2205	Ixodidae in 711	2240
Vespinae	Toxorhynchites rutilus in 1210	Vulpes vulpes, Chaetopsylla matina on, in
book 484 in British Isles 484, 691	Vespula spp. in, on man 915 viridis, Orthellia (see O. cornicina)	Czechoslovakia 1752 vulpis, Felicola
Vespoidea, in British Isles 691	Viruses and virus diseases	Wad Medani virus
Vespula	of arthropods	in
check-list of 484	Aedes aegypti 105, 3192	Amblyomma cajennense, in Jamaica
common names of 2457	A. cantator 2893	Wyslomma anatolisum in Iran 1627
arrhythmia caused by 915	A. epactius 63 A. sollicitans 2882	Hyalomma anatolicum, in Iran 1637, 2211
hypersensitivity to 1386, 1634, 1930	A. stramineus 3288	Walchia acutascuta
diagnosis of 1389, 2455	A. taeniorhynchus 1819	sp. nov., description of 1003
on pig, effects of 914	Anopheles spp. 3194	in China 1003
preyed on by, Vespa crabro, in Maryland 1631	Apis mellifera 3	on Apodemus agrarius, in Kiangsu 1003
venoms of 1930, 2455	Chironomus decorus 448 Culicidae 1025, 1038	walchia globosensilla sp. nov., description of 1003
contaminants in 1634	medically-important arthropods,	in China 1003
Vespula arenaria (see Dolichovespula	bibliography 2517	on Apodemus agrarius, in Kiangsu 1003
arenaria)	Musca domestica 1925	Walchia jiangxiensis
Vespula flavopilosa in USA 487	Panstrongylus megistus 808	sp. nov., description of 3100
nesting biology of 487	Periplaneta fuliginosa 22, 547 Simuliidae 144	in China 3100 on Apodemus agrarius, in China 3100
venom of 1386	Triatoma infestans 808	on Rattus, in China 3100
Vespula germanica	Zeiraphera diniana 2839	Walchiella impar
biology of 2460	defence mechanisms against 544	in Philippines 3428
control of 2460	insect control using 3, 3118	on Apomys, in Philippines 3428
in Canada 2460 in USA 2460	review 1680 mammal cell lines not affected by	on Rattus bagobus, in Philippines 3428 Walchiella oudemansi
in USSR 3347	1034	in Philippines 3428
preying on, Tabanidae, in Tajikistan	review 525	on Rattus bagobus, in Philippines 3428
3347	role in population dynamics of 2839	walkerae, Argas

walkeri, Anopheles Wallabia agilis, Schoengastia bicoxalae on, in Papua New Guinea 3426 Wanowrie virus, in, Hyalomma asiaticum, in Iran 1637, 2211 Warbex (see Famphur) warburtoni, Haemaphysalis Washington State Aedes togoi in, in rock pools 2927
Calliphora spp. in, on pheasant 2186
Chatia cunninghamae in, on Tamiasciurus 3095 Eadiea neurotrichus in, on Neurotrichus 2236 Wohlfahrtia spp. in, on pheasant 2186 Wasp, paper (see Polistes) Waste water, sprinkler irrigation with, effects on mosquitoes of 2368
Water, in Glycyphagus domesticus, regulation of 1969 Water buffalo (see Buffalo, Asian) Water containers Aedes spp. in, in Nigeria 2895 Culicinae in, in Nigeria 602 mosquito control in, covers for 115 Water hemlock (see Cicuta douglasii) Water management Culex pipiens and 2370 for vector control 781 role in fly control of 532 role in mosquito control of 3207, 3208, 3228 Water pollution, Gambusia as affected by 2346 Water supply Paratanytarsus spp. in, in England 2713
pest control in, pyrethroids for 2713
Water tanks, Aedes aegypti in, in West
Malaysia 1800 Waters, natural Bacillus thuringiensis in, contamination by 1249 diflubenzuron in, residues of 2109 insecticides in, residues of 1709 insecticides in, residues of pesticide pollution of 1690 Waters, potable, Bacillus thuringiensis, tolerance limits for 1249 watteni, Aedes wauensis, Guntheria Waxes and waxy substances in insect cuticle, analysis of dimethylalkanes in 2277 in Musca domestica cuticle, role in insecticide resistance of 198 in Solenopsis invicta post-pharyngeal glands 2203 Wed Medani virus Rhipicephalus evertsi, in West Africa 704 R. guilhoni, in West Africa 704 weedunnarti, Guntheria weida, Hystrichopsylla Weiseria spinosa, taxonomy of, transferred to Diffingeria 1890 Anopheles stephensi in, in Tamil Nadu 2373 Culex quinquefasciatus in, in Tamil Nadu 2600 wenxianensis, Chaetopsylla West Indies, Atopomelidae in 286 West Nile virus Aedes aegypti, replication of 89 A. albopictus infectivity of 1526 replication of 89 A. pseudoscutellaris, replication of 89 Anopheles maculipennis, transmission of 2233 Crocidura russula, in Spain 2233 Culex tritaeniorhynchus infectivity of effects of adult age on 3233 effects of rearing conditions on 3233 C. vishnui, in Andhra Pradesh 3276 man, antibodies to 1947 West Virginia Culicidae in 1805 Leptinus americanus in, on Blarina 3378

Orthopodomyia alba in 1821

Western Australia Boopiidae in, on Marsupialia Calliphoridae in, on sheep 165 Culicoides brevitarsis in 2142 Demodex spp. in, on cat 3104 Laelapinae in 1653 Laelaps spp. in, on Pseudomys sheep in, fly control on 163 Western equine encephalitis (see Encephalitis, western equine) Western Samoa, Aedes spp. in 1236 whartoni, Neotrombicula whartoni, Schoengastia Whartonia brevis, taxonomy of 730 Whartonia dewitti sp. nov., description of 730 in Malaysia 730 in Thailand 730 on Rhinolophus affinis 730 Whartonia hainana, taxonomy of 730 Whartonia kulumadouensis sp. nov., description of 2235 in Indonesia 2235 in Papua New Guinea 2235 on Dobsonia moluccensis, in Irian Jaya 2235 on *Dobsonia pannietensis*, in Papua New Guinea 2235 Whartonia penthetor descriptions of 2235 on Penthetor lucasi 2235 taxonomy of, lectotype for 2235 Whartonia teongwahi sp. nov., description of 730 in Indonesia 730 on Hipposideros larvatus, in Indonesia on Rhinolophus acuminatus, in Indonesia 730 Wheat (Triticum spp.) Wheat bran, bait component for, Musca domestica 3017 wheeleri, Amitermes whitmorei, Culex Whitneyomyia beatifica, in USA 661 Whitneyomyia beatifica atricorpus (see W. beatifica) Wildebeest (see Connochaetes taurinus) Wildlife, pesticides in, non-target effects of 1987 Wildlife areas Aedes spp. in, in California 2121 Actes spp. in, in California 2121
mosquito control in, integrated 2121
Wilhelmia (see Simulium)
in England 2670
in USSR 1586
Wilhelmia equina (see Simulium equinum)
Wilhelmia lineata (see Simulium lineatum)
Wilhelmia mediterranea (see Simulium seudequinum) Wilhelmia salopiensis (see Simulium lineatum) Wilhelmia veltistshevi (see Simulium veltistshevi) williamsi, Geomydoecus williwilli, Culicoides wirthi, Corethrella Wisconsin Aedes triseriatus in. on man Chironomidae in, on man 912

Ixodes dammini in 269

mosquito control in 3209 Siphonaptera in, on Rattus Trixacarus caviae in, on guinea-pig Vespula maculifrons in 3375 1979 Vespula maculifrons in wittei, Laelaps Wohlfahrtia Clostridium botulinum in, in Washington State 2186 on pheasant, in Washington State 2
Wohlfahrtia intermedia, in China 213 Wohlfahrtia magnifica control of, insecticides for 3349 in USSR 3349 on sheep, in Kazakhstan 3349 Wood, pest control in, book 7 woodi, Ixodes Woodland Aedes spp. in, vertical distribution of 1212 Culex spp. in, vertical distribution of 1212

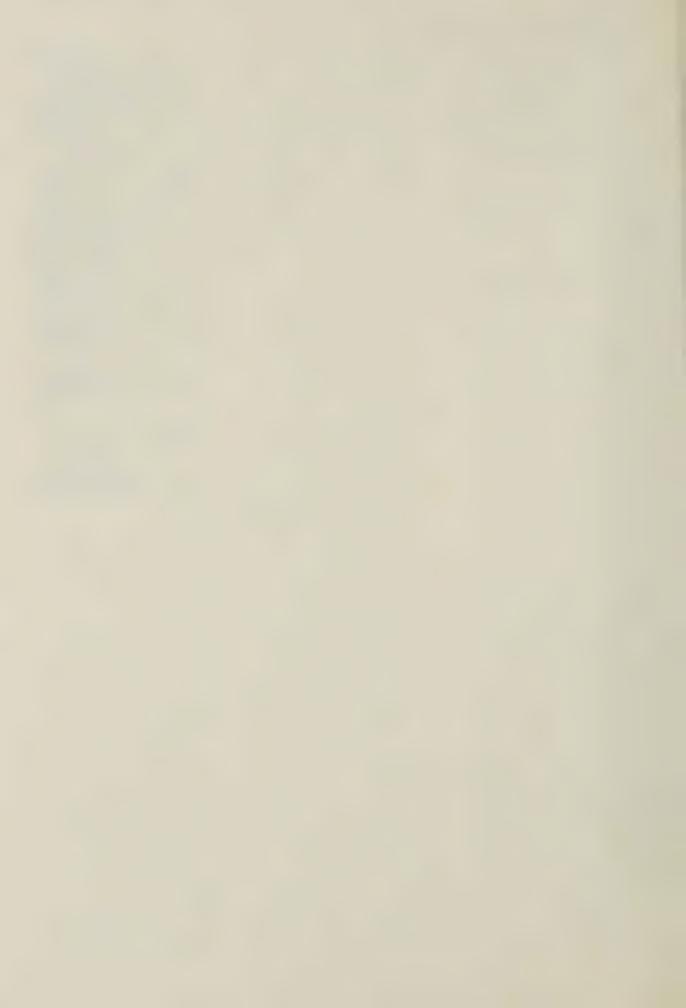
Woodland, Acacia, endosulfan in, effects on birds of 872 Woodland, deciduous Glossina morsitans in, in Zimbabwe 1882 G. pallidipes in, in Zimbabwe 1882 Woodland, mixed, Ixodes trianguliceps in, in Ukraine 2736 Woodland, oak, Haemaphysalis concinna in, in Italy 3062 Woodland, riverine Glossina morsitans in, in Zimbabwe 1882 G. pallidipes in, in Zimbabwe 1882 woodroffei, Cheyletus Wuchereria bancrofti control of filaricides for 1794 vector control for 409, 1794, 2048, 2600 Aedes spp., in Tonga 1236 A. aegypti morphology of 605 uptake from man of 2589
A. polynesiensis pathogenicity of 121 permeability of gut to 120 uptake from man of 2589 Anopheles funestus, pathogenicity of 121
A. gambiae, pathogenicity of 121
A. subpictus, infectivity of 1777
Culex pipiens, in Egypt 3293
C. quinquefasciatus
in Andhra Pradesh 2599
in Bihar 2888 infectivity of 1205 strain differences in pathogenicity of 121 permeability of gut to transmission of 2138 uptake from man of 2589 man effects of solar eclipse on 3223 in Andhra Pradesh 102, 2599 in Costa Rica 2138 in Egypt 3293 in French Guiana 1154 in Liberia 409, 1794 morphology of 605 rodents, morphology of 605 vectors of 2801 wui, Phlebotomus major wuzhishanensis, Haematopota wyeomyia
in Canada 1533
in Quebec 2881
larvae of, distinguishing instars of 2611 Wyeomyia felicia in Venezuela 1222, 2362 in Heliconia aurea bracts, in Venezuela 1222 in Heliconia aurea floral bracts, in wenezuela 2362

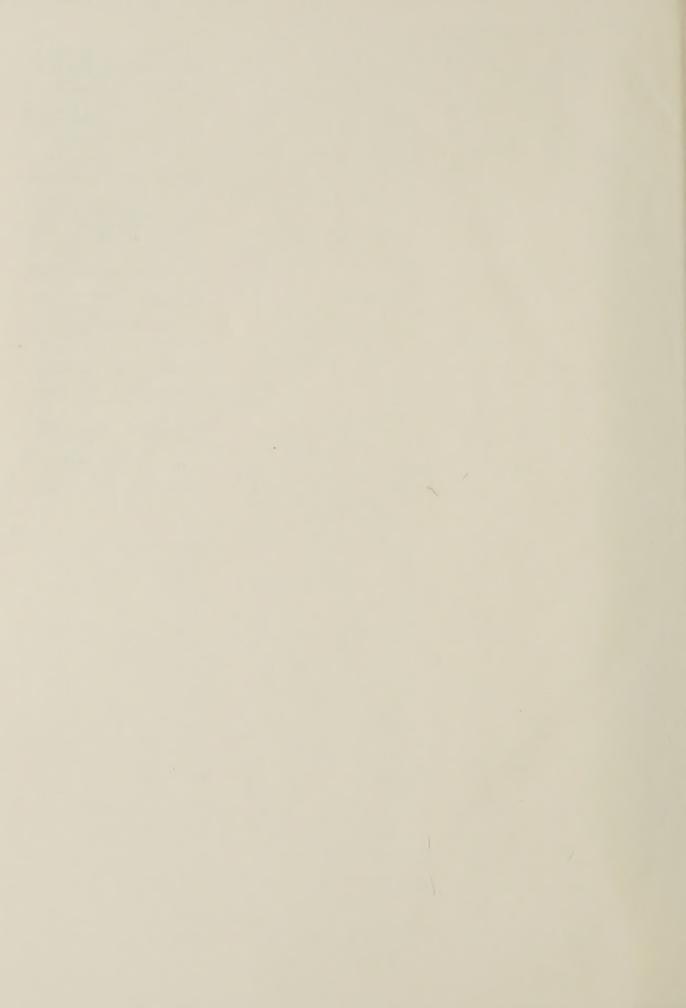
Wyeomyia smithii
autogenus autogeny in 66
blood-feeding in 66
development in, effects of temperature on 839 diapause in 61 environmental heterogeneity in 587 fecundity in, effects of temperature on 839 in Canada 98 in USA 66, 587, 839 in Sarracenia purpurea pitchers in Michigan 587 in New York State 839 in Newfoundland 98 life-span in, larval influences on 1224 oviposition in 98 photoperiodism in 61 reproduction in, larval influences on 1224 Romanomermis nielseni in, pathogenicity of 1817 Wyoming cattle in, pest control on 2525 mosquito control in 3210 Oeciacus vicarius in, on man sheep in, pest control on 2524

X-rays	D-Xylose, Musca autumnalis feeding	Yugoslavia contd.
effects of, on	responses to 474	Pyemotes zwoelferi in, in dried flowers
Anopheles pharoensis 578 Periplaneta americana 1169	yahense, Simulium yanbarensis, Topomyia	1967
Xanthine (see 1H-Purine-2,6-dione, 3,7-	yasguri, Cheyletiella	synanthropic flies in 901 yui, Leptotrombidium
dihydro-)	Yeast Year	yuili, Lutzomyia
Xanthine dehydrogenase (see	diet component for	yunnanensis, Ascoschoengastia
Dehydrogenase, xanthine)	Forcipomyia taiwana 418	yunnanensis, Hystrichopsylla weida
Xanthommatin, in Lucilia cuprina, effects of	Musca domestica 3356	yunnanensis, Leptotrombidium
eye colour mutations on 2195	Yeast extract, Phormia regina feeding	yunnanus, Cratynius
Xanthotoxin (see 7H-Furo[3,2-	responses to 1619	zacatecae, Geomydoecus
g][1]benzopyran-7-one, 9-methoxy-)	Yellow fever	Zacco platypus
Xenopsylla forecasting of 1516	in Africa, review 2956	preying on
in Karnataka 2470	in French Guiana, not found 1154 virus	Anopheles sinensis, and biological
in Rhombomys opimus burrows,	control of, vector control for 2285	control using 1728
distribution pattern of 1518	in	Culex spp., and biological control using 1728
on Rhombomys opimus, in Kazakhstan	Aedes aegypti	zachvatkini, Hirsutiella (see Neotrombicula
1516	estimating infection rate with 831	zachvatkini)
tracheoles in 2835 Xenopsylla brasiliensis	in Gambia 2037, 2038 replication of 2637	zachvatkini, Neotrombicula (Hirsutiella)
in Burundi 49	transmission of 2637	Zaïre
in Tanzania 2030	A. africanus, in Central African	Cordylobia anthropophaga in, on man
on rodents, in Tanzania 2030	Republic 3295	2417
Xenopsylla cheopis	A. opok, in Central African Republic	Gahrliepia pyriformis in, on
bacteria in, parenteral infection with	3295	Micropotamogale 2769
control of	Amblyomma variegatum, in Central African Republic 1411	Scarabaeidae in, in dung 1392 Simuliidae in 2673
biological 1186	Caluromys spp., in Brazil 2627	Simulium albivirgatum in, nematodes in
insecticides for 565, 1190, 2325, 2819,	Cebus spp., in Brazil 2627	1847
2868, 3188	Haemagogus spp., in Brazil 2627	zalophi, Demodex
DDT resistance in, in Java 565, 1190,	man, in Gambia 393, 2037, 2038	Zalophus californianus
2819	mosquito cell lines, replication of	Demodex zalophi on, effects of 2228,
fecundity in, effects of host on 1061 feeding response specificity in 2326	2348 vectors of, control of 2348	2229 Orthohalarachne diminuata on, in
Hepatozoon erhardovae in, development	Yellowjacket (see Dolichovespula and	Japanese zoo 1423
of 2331	Vespula)	Zambia
Hymenolepis diminuta in, infectivity of	Yersinia enterocolitica	Demodex spp. in, on domestic animals
366	in S. O.O.O.	1333
in Burundi 49	Diptera, transmission of 880	Glossina spp. in 1308, 1333
in Indonesia 565, 817, 1190, 1963, 2819, 3188	pig, in Japan 880 Xenopsylla cheopis, parenteral infection	G. morsitans in 2161 Ixodes calcarhebes in, on Praomys 249
in Mexico 1130	with 1515	Sarcoptes spp. in, on domestic animals
in Morocco 3183	Yersinia pestis (see also Plague)	1333
in Tanzania 2030	control of, vector control for 50	Strobiloestrus vanzyli in, on Kobus 1338
in USSR 2868	in College and in College 255	trypanosomiasis in 1308
on Microtus mexicanus, in Mexico 1130 on nude hosts 2333	Callopsylla caspia, in Caucasus 355	tsetse control in 1097 zammitii, Aedes
on Rattus rattus	Catallagia sculleni, in California 2319 Ceratophyllus lebedewi, in Kirgizia	zea, Heliothis
in Java 3188	1688	Zea mays (see Maize)
in Morocco 3183	field vole, in Caucasus 355	Zeaxanthin (see β , β -Carotene-3,3'-diol,
on Rodentia	man, in USA 2317	(3R,3'R)-)
in Caucasus 2868 in Indonesia 1963	Meriones persicus, in Iran 364	Zebu (Bos indicus)
in Java 2819	M. vinogradovi, in Iran 364 Mesocricetus brandti, in Iran 364	Anaplasma marginale in, in Australia 938
in Tanzania 2030	Microtus mexicanus, resistance to	arthropod pests of, in Malaysia 2538
on small mammals, in Java 817	1130	Boophilus microplus on
phagostimulants for 1471	Neotoma cinerea, in California 2319	in Australia 938
Rickettsia mooseri in, electron microscopy	Nosopsyllus iranus, in Iran 364	in Queensland 259
of 2320 P prowagekii in not transmitted 3066	Opisodasys keeni, in California 2319	tick control on 259
R. prowazekii in, not transmitted 3066 rickettsiae in, symbiotic 2320	Oropsylla silantiewi, in Kirgizia 1688 Peromyscus maniculatus, in California	Zeiraphera diniana, granulosis virus in, role in population dynamics of 2839
Yersinia pestis in	2319	zeylanica, Sergentomyia
persistence of 359	Rhadinopsylla li, in Kirgizia 1688	ziemanni, Anopheles
transmission of 2317	Siphonaptera, pathogenicity of 1043	Zimbabwe
Xenopsylla conformis	Thrassis fotus, transmission of 1753	Arcyophora spp. in, on cattle 1632
in Iran 364 in USSR 356	Xenopsylla cheopis parenteral infection with 1515	Argas brumpti in, on man 1942 Buthidae in 1428
population age-structure in 356	persistence of 359	entomology in 1405
Yersinia pestis in, in Iran 364	transmission of 2317	Glossina morsitans in 152, 436, 647,
Xenopsylla cunicularis	X. conformis, in Iran 364	1881, 1882
in France 2335	vectors of 2801	on cattle 2997
in Portugal 2336 on Oryctolagus cuniculus	feeding apparatus for 1185	G. pallidipes in 152, 436, 647, 1881, 1882
in France 2335	Yersinia pseudotuberculosis (see Y. rodentium)	on cattle 2997
in Portugal 2336	Yersinia rodentium	Ixodidae in 1638
seasonal abundance of 2336	in	Ixodoidea in, on cattle 937
Xenopsylla debilis	Hyalomma marginatum, effects on	medical entomology in 2006
in Kenya 1513	respiration of 250	Zinc, in Simulium ornatipes, effects on
on Tatera nigricauda, in Kenya 1513 Xenopsylla difficilis	Xenopsylla cheopis, parenteral infection with 1515	water relations of 2393 Ziziphin
in Kenya 1513	yezoense, Prosimulium	in Phormia regina, effects on
on Tatera nigricauda, in Kenya 1513	yosanoi, Odontacarus	chemoreceptors of 1613
Paraceroglyphus spp. on, in Kenya 1513	Yugoslavia	in Ziziphus jujuba 1613
Xenopsylla gerbilli	Anopheles spp. in 599, 3285	Ziziphus jujuba, ziziphin in 1613
in USSR 571 on Rhombomys opimus, assessing		Zolone (see Phosalone)
	Culicoides spp. in 414 Dermacentor reticulatus in bacteria in	Zoo animals
	Dermacentor reticulatus in, bacteria in 237	Zoo animals birds, Laminosioptes spp. on, in Antwerp
infestations of 571 Xenopsylla hirtipes	Dermacentor reticulatus in, bacteria in 237 Formica gagates in, trematodes in 688	birds, Laminosioptes spp. on, in Antwerp Zoo 3423
infestations of 571 Xenopsylla hirtipes in USSR 571	Dermacentor reticulatus in, bacteria in 237 Formica gagates in, trematodes in 688 Ixodoidea in 701	birds, Laminosioptes spp. on, in Antwerp Zoo 3423 Loxodonta africana, Ruttenia loxodontis
infestations of 571 Xenopsylla hirtipes in USSR 571 on Rhombomys opimus, assessing	Dermacentor reticulatus in, bacteria in 237 Formica gagates in, trematodes in 688 Ixodoidea in 701 Lucilia caesar in 221	birds, Laminosioptes spp. on, in Antwerp Zoo 3423 Loxodonta africana, Ruttenia loxodontis on, in Czech zoo 2451
infestations of 571 Xenopsylla hirtipes in USSR 571	Dermacentor reticulatus in, bacteria in 237 Formica gagates in, trematodes in 688 Ixodoidea in 701	birds, Laminosioptes spp. on, in Antwerp Zoo 3423 Loxodonta africana, Ruttenia loxodontis

```
Zoo animals contd.
        Zalophus californianus
             Demodex zalophi on, effects of 2228,
                     2229
 Orthohalarachne diminuata on, in Honshu 1423
Zooflagellata, book 2259
Zoological gardens
Diptera in
            in India 3189
in Java 3189
       in Tanzania 3189 fly control in 3189
 Zoomastigina, in, Triatominae, in Paraguay 3174
Zooplankton
Culicid larvae eating 3263
in swamps, effects of endosulfan on 2163
preyed on by, fish 1543
ZR-0515 (see Methoprene)
ZR-0619 (see Triprene)
ZR-0777 (see Kinoprene)
Zwoelferi, Pyemotes
Zygodontomys lasiurus, Polygenis tripus on, in Brazil 3185
Zygoribatula cognata
Anoplocephalata in, in Azerbaijan 1051
in USSR 1051
in pastures, in Azerbaijan 1051
Zygoribatula frisiae
Anoplocephalata in, in Azerbaijan 1051
  Zooplankton
Zygorioatuia trisiae
Anoplocephalata in, in Azerbaijan 1051
in USSR 1051
in pastures, in Azerbaijan 1051
Zyzomys argurus, Laelaps synnomus on, in
Western Australia 1653
Zyzomys woodwardi, Laelaps angiodes on,
in Western Australia 1653
4.74
 4-74
      against
             Argas persicus, in fowl housing 1718
             Cimex lectularius, in fowl housing
                    1718
      in guinea-pig, toxicity of 1718
in poultry, toxicity of 1718
in vole, toxicity of 1718
 SUBJECT INDEX PREPARED BY A M WOOD
```







CAB PUBLICATIONS AND SERVICES

Main Journals

The abstract journals form one part of a range of services in agricultural science provided by CAB, and will contain in 1982 a total of 180,000 abstracts and titles. With records derived from over 8,500 serials and many other publications, the journals constitute the only comprehensive coverage in English of the world literature on agriculture and related sciences. Readers' comments on the journals, their subject and literature coverage, are welcomed.

Specialist Journals

In response to demand, CAB has launched a new series of journals for the specialist research worker; some cover multidisciplinary topics, others deal with a single crop or product. Records for these journals are selected from the CAB database, and may be supplemented by relevant items from collaborating organizations.

Magnetic Tapes

Since 1973 (1972 in Animal Health) the journals have been produced by computer techniques. The consolidated database, now containing over 1,300,000 records and increasing by 12,000 each month, is available on magnetic tape. Complete sets of tapes or parts corresponding to selected subjects may be leased. Prices and sample tapes on request.

Online Services

The CAB database, known as CAB ABSTRACTS, is accessible through Lockheed's computer based DIALOG Information Service, the ESA/QUEST system and DIMDI. Online access to CAB ABSTRACTS provides a rapid and highly efficient method of obtaining references to papers published since 1972-73.

CAB Search Services

CAB scientists who compile the CAB database will also carry out searches for customers. The basic charge is £25 plus £0.10 per abstract retrieved. A regular monthly SDI service can be supplied for £100 per year for up to 50 references per month.

Annotated Bibliographies

4,000 Annotated Bibliographies already available provide information on specific topics.

Other Publications

A wide range of books, review articles, technical communications and reports are published. Write for our catalogue.

Document Delivery Service

Most original articles abstracted in CAB journals are available as photocopies. Order forms are printed in each journal or are available in bulk from CAB. Online document ordering is also available through Lockheed's DIAL-ORDER and ESA's PRIMORDIAL services.

Ordering Information

Subscriptions should be fully paid by 1st December for the volumes to be issued in the following year.

Many journals are available at special rates to subscribers in CAB member countries which are listed below. Please write for details.

A subscription provides entitlement to monthly (or quarterly) parts plus annual indexes. Rates include packing and mailing by air post to distant countries wherever the cost can be absorbed. Orders should be sent to:

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.
Tel: Farnham Common (02814) 2281 Telex: 847964 Cables: Comag, Slough

Member Countries of CAB

New Zealand Australia Guyana The Bahamas The Gambia Bangladesh India Nigeria Botswana Jamaica Papua New Guinea Trinidad & Tobago Sierra Leone Canada Kenya Uganda United Kingdom Malawi Solomon Islands Cyprus Zambia Dependent Territories Malaysia Sri Lanka Fiji Mauritius Tanzania Zimbabwe Ghana

CAB ABSTRACT JOURNALS AND SERIAL PUBLICATIONS 1982

	Annual rates	New
	(paper or microform)	subscriber rates
Frequency	£	£
M	81	81
M	146	95
M	146	146
M		98
1		123
705		95
202		46 81
		28
		70
		133
M	211	137
	43	43
M	184	120
M	124	81
M	227	148
M		86
		85
		42
		35 85
		43
Q		40
		120
	167	109
M	92	60
M	146	95
Q	65	. 42
1	25	22
		23 66
		18
ŏ	42	27
Q.	12	8
		27 35
		28
	72	47
M	54	35
M	60	39
S		20 16
		27
Ö	18	12
M	30	20
и	43	
H		154 -
	36	23
Q	11	SI - 17
A		_
H		1000
Ä	6	_
100	A second	
		67 51
		28
12		75
Α	10	10
S	25	25
		7
Ā	72	
	1 80	
— Monthly	0 (Quarterly
	M M M M M M M M M M M M M M M M M M M	Frequency M M 146 M 146 M 146 M 151 M 189 M 146 M 70 M 124 Q 43 M 108 M 205 M 211 Q 43 M 184 M 124 M 227 M 86 M 130 M 65 Q 54 M 130 Q 43 Q 40 M 130 Q 43 Q 40 M 184 M 167 M 92 M 146 Q 65 M 130 Q 43 Q 40 M 184 M 167 M 92 M 146 Q 65 M 130 Q 43 Q 40 M 184 M 167 M 92 M 146 Q 65 M 130 Q 43 Q 40 M 184 M 167 M 92 M 146 Q 18 M 54 M 43 M 54 M 43 M 54 M 43 M 54 M 43 M 54 M 60 Q 11 11 11 11 11 11 11 11 11

CENTRAL SALES
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, UK.
Tel. Farnham Common (028 14) 2662. Telex: 847964. Cables: Comag, Slough